

Gearmotors

General Catalog

CONTENTS

Introduction

P.0002	Gearmotor Concept	P.0018	How to Select a Gearmotor
P.0006	Properties of Gearmotors by Type	P.0020	Product Lineup/Index
P.0008	Battery Powered Gearmotors	P.0024	Initiatives
P.0014	High Precision Reducers for Servo Motors	P.0027	Introduction to Our Website
		P.0028	Company Overview

Product

P.0030	INDUCTION GEARMOTORS
P.0031	G/G3 Type Parallel Shaft
P.0193	H/H2 Type Right Angle Shaft
P.0307	F Type Right Angle Hollow Bore/Right Angle Shaft
P.0365	F2/F3 Type Concentric Right Angle Hollow Bore/ Concentric Right Angle Shaft
P.0463	Technical Documentation
P.0584	BATTERY POWERED GEARMOTORS
P.0585	VG/APG Type Parallel Shaft
P.0601	VH Type/Right Angle Shaft
P.0609	VF3S/VF3F Type Concentric Right Angle Hollow Bore/Concentric Right Angle Shaft F3S Type Right Angle Shaft
P.0625	Control Unit Specification
P.0661	Technical Documentation
P.0672	HIGH PRECISION REDUCERS FOR SERVO MOTORS
P.0673	Motor Matching / Motor Power Design List
P.0687	APG/AG3 Type Parallel Shaft
P.0719	AH2 Type Right Angle Shaft
P.0729	AFC Type Right Angle Hollow Bore / Right Angle Shaft
P.0755	AF3 Type Concentric Right Angle Hollow Bore / Concentric Right Angle Shaft
P.0789	Technical Documentation
P.0842	KOMPASS BEVEL GEARBOXES
P.0843	KOMPASS Bevel Gearboxes
P.0859	Technical Documentation
P.0866	TECHNICAL DOCUMENTATION, OPTION, INDEX



Precautions for Safety

General

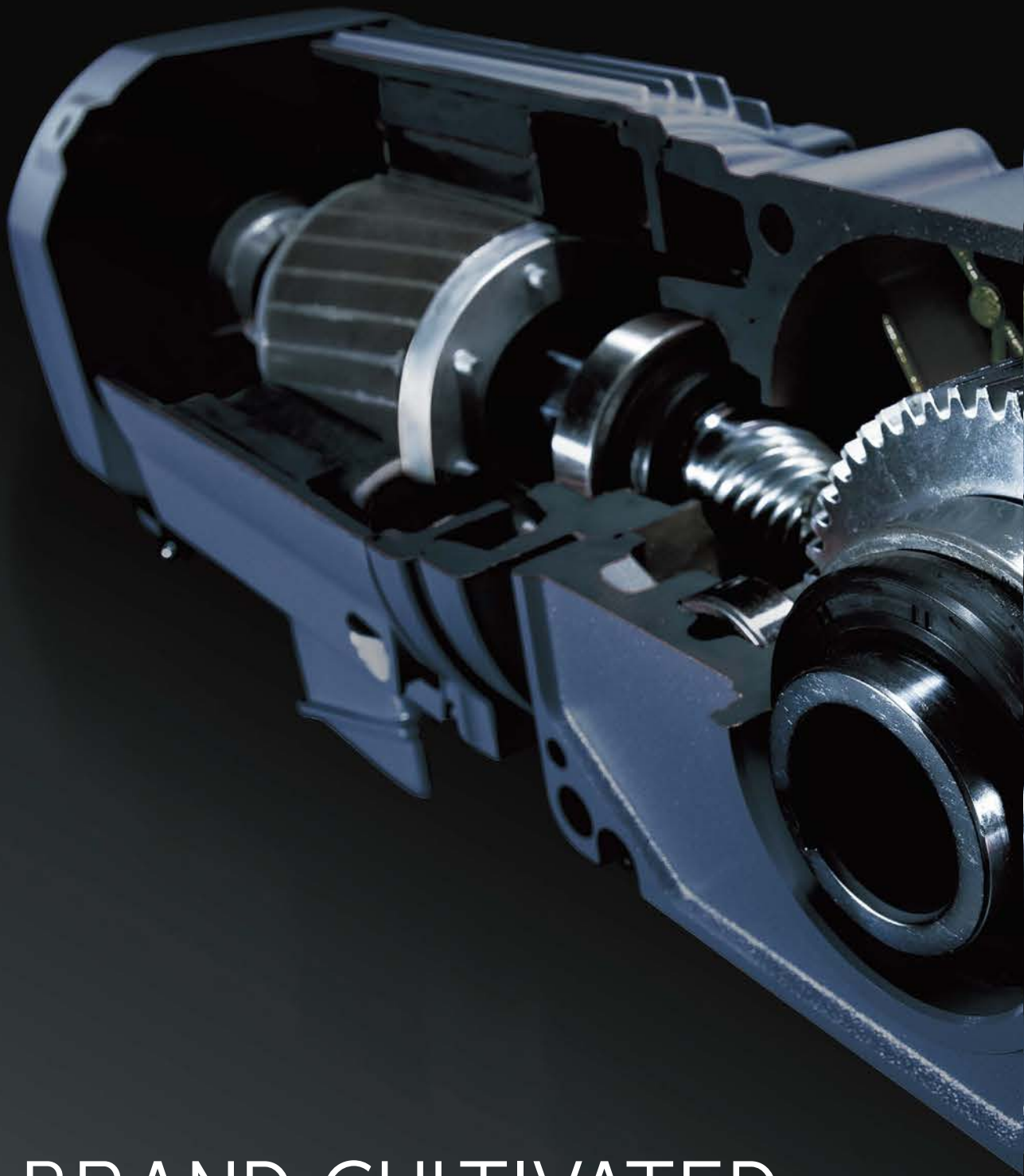
- It is recommended to read the safety regulations concerning the installation location and the device to be used. (Ordinance on Industrial Safety and Health, Electrical Equipment Technical Standards, Interior Wiring Code, Factory Explosion Prevention Guidelines, Building Standards Act, etc.)
- Before using the product, carefully read through the Instruction Manual to familiarize yourself with installation process.

Selection

- Select the most appropriate product for your usage environment and application. (When selecting a product, be sure to carefully read the "Driver Specifications," the "Technical Documentation," and "Precautions for Use.")
- To use the product for personnel transportation equipment or lifting equipment, provide the equipment with a protective device for safety.
- Do not use the product in an explosive environment. Failure to follow this precaution may result in an explosion, fire, electric shock, injury, or damage to the equipment.
- Do not perform work in a live-wire state. Be sure to turn off the power before work. Failure to follow this precaution may result in an electric shock.
- Transportation, installation, piping, wiring, operation, handling, maintenance, and inspection must be conducted by personnel with expertise and skills. Failure to follow this precaution may result in an explosion, ignition of fire, fire, electric shock, injury, or damage to the equipment.
- For equipment particularly susceptible to oil vapor such as food processing machinery, provide an oil pan or use protective device in preparation for oil leaks due to a failure, end of life, etc.

Note

The specifications of the products in this catalog are subject to change for improvement or other purposes without notice. So, please contact us before designing your equipment to confirm the specifications of our product.



BRAND CULTIVATED
IN TECHNOLOGY.



You can find technologies and quality that ensure solutions to diverse requirements.

1 Mastering Perfect Precision Gears

In 1955, we started the manufacture and sale of gears. All processes, from design to heat treatment, are performed by integrated production, and we own industry's top level equipment and capacity that can produce about 700,000 products a month. We are committed to develop and manufacture high precision gears, including gears of small diameters, small modules, and complicated shapes.

2 Integrated Production

At our plants, all items are manufactured from raw materials to finished products through integrated production under extremely strict control of environment such as constant temperature and low mist. Our Bevel Grinding machines meet the needs of customers in a wide range of industries as we produce them using high-performance equipment. We have the largest factory in Japan as an OEM gear manufacturer capable of in-house integrated production.

3 Fusion of advanced technology

Pioneer in Gear technology for more than half a century, also die-casting technology inherited from sewing machines, with our In-house motor manufacturing technology. Power transmission devices created through the fusion of these advanced technologies fulfill various needs with a wide variety of products having flexible specifications and designs tailored according to requests from customers.



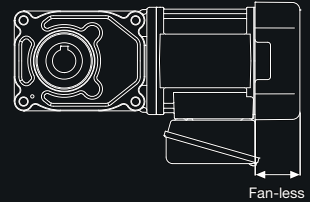
THE QUALITY KEEPS EVOLVING.

Backed by reliable technology,
gear motors step toward the next generation.

Feature 01

Fan-less

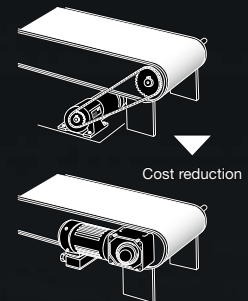
The totally enclosed non-ventilated (fan-less) design has led to reduced noise and compactness. It does not scatter dust, making it ideal for use in clean rooms.



Feature 02

Right Angle Hollow Bore

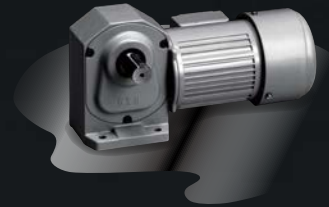
If you use the hollow shaft type, you don't need connecting parts or a protective cover for safety, so it looks neat and leads to cost reduction.



Feature 03

Water-resistant and Dustproof (IP65)

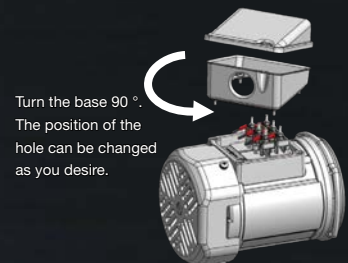
Water-resistant and dustproof types are added to the lineup as standard items. Our terminal boxes can be installed even for environments where water splashes, such as food processing industries and water treatment plants. Terminal boxes can be cleaned by water without need to disassemble them.



Feature 04

Terminal Box

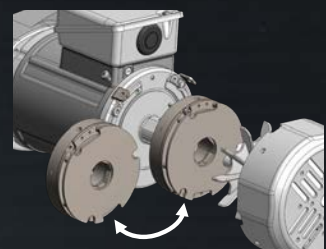
The position of the hole in the terminal box can be rotated. Since the customer can change the direction of the lead wire outlet as desired, the range of freedom of installation will increase.



Feature 05

Replacement of brake unit

The brake assembly is integrated which would be easy to replace when it has reached the end of life or a failure occurs. This can save you labor during maintenance work.



Find the best gearmotor for your needs

We have 140,000 standard products, and except for some models, most of them are compatible with overseas standards, so it is safe to use a device with a gearmotor installed in overseas.

We can also deal with custom orders as well as expedite orders.

standard products
140,000
More than kinds

Wide variety of standard products meets the global standard

01 INDUCTION GEARMOTOR

P.0030

- Easy to use, like quick and simple start up just by connecting to the power supply.
- Different mounting types are available (Foot Mount, Foot Mount, Small Flange Mount).



For constant speed



MINI SERIES 15 W to 90 W
MID SERIES 0.1 kW to 2.2 kW

For tough environment where
water or dust spatters (IP65)



MINI SERIES 15 W to 90 W IP65 Gearmotors
MID SERIES 0.1 kW to 2.2 kW IP65 Gearmotors

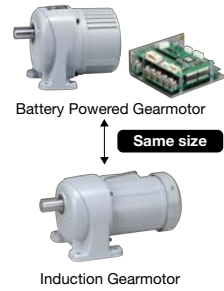
For variable speed



MINI SERIES 15 W to 90 W
Speed Control Gearmotors

Mounting dimensions that have remained unchanged since release

Since the mounting dimensions have not changed since the product was released, there is no need to modify the equipment drawings even after the renewal. In addition, it can be easily replaced even in the event of a failure, and can be installed in to a different categories such as induction gearmotor can be changed to battery powered gearmotor.



02 BATTERY POWERD GEARMOTOR

P.0584

- Battery powered, ideal for devices which are in motion.
- Easy to Install dedicated software.



For a DC power supply ▶ V SERIES 50 W to 0.4 kW 12 V-24 V-48 V
SD SERIES 0.75 kW 48 V

For variable speed ▶ V SERIES 50 W to 0.4 kW 12 V-24 V-48 V (Driver settings)
SD SERIES 0.75 kW 48 V (Driver settings)

03 HIGH PRECISION REDUSERS FOR SERVO MOTORS

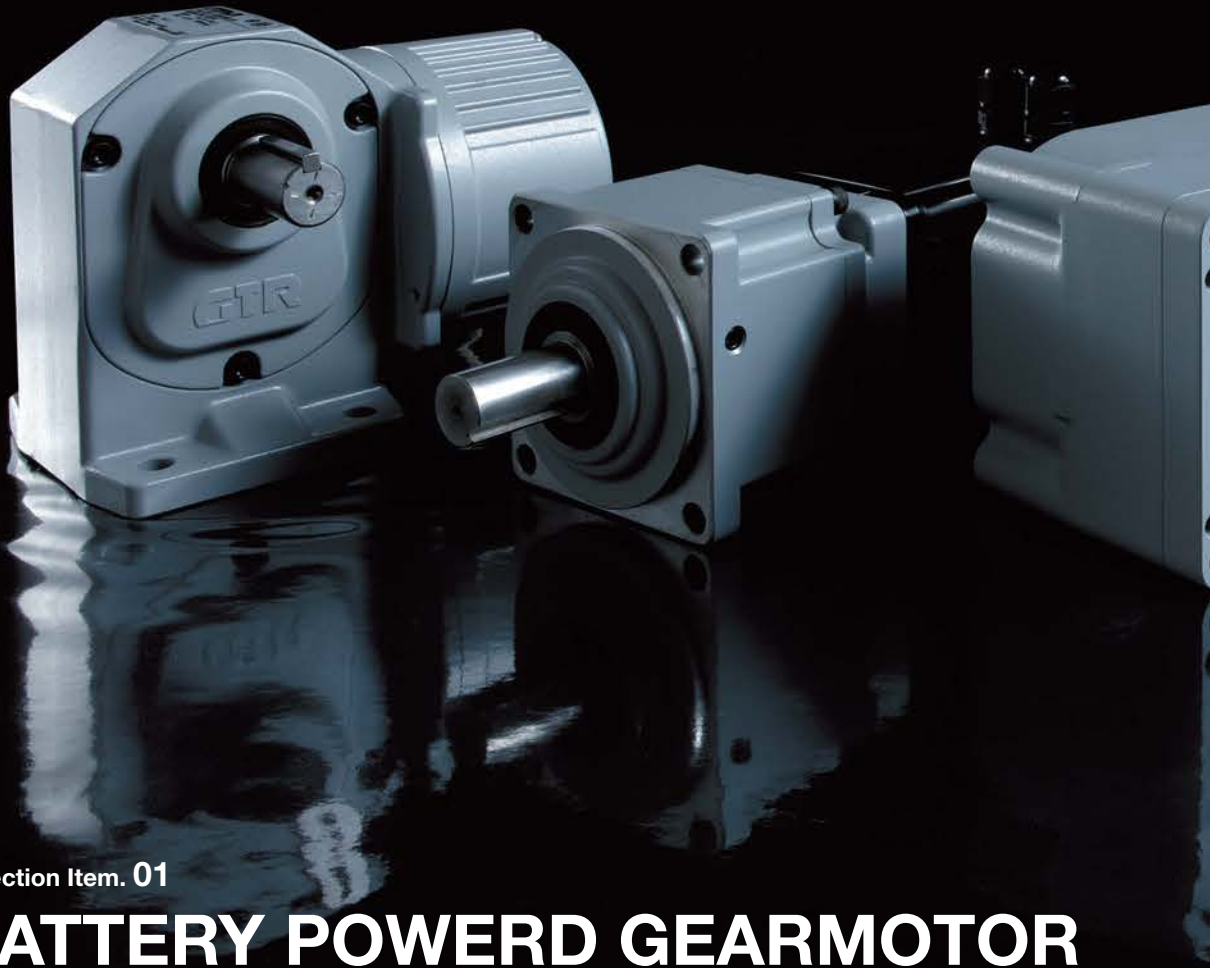
P.0672

- Highly precise control is possible with a detector that measures the rotation speed, etc.
- Compatible with major servo motors in the Japanese domestic market as well as overseas.



For a commercially available servo motor ▶ APG/AF3 100 W to 3000 W Classes (Compact High Precision Reducers)
AG3/AH2/AF3 100 W to 2000 W Classes (High Precision Reducers)

For tough environment where water or dust spatters (IP65) ▶ APG 100 W to 3000 W Classes (Compact High Precision Reducers)

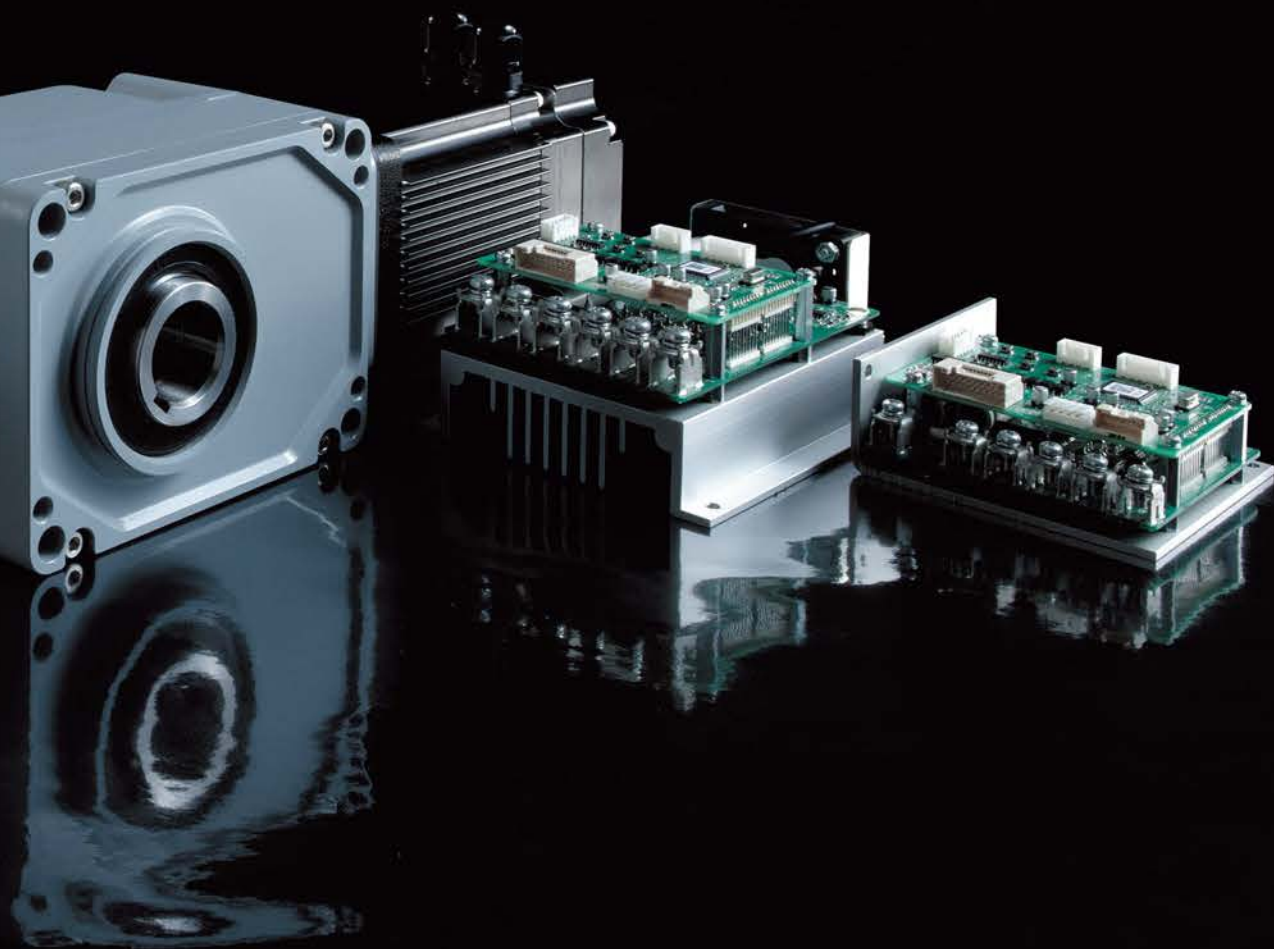


Selection Item. 01

BATTERY POWERD GEARMOTOR

Make AGV/AMR more easily and freely to use

We have a range of battery powered gearmotors with compact designs, a wide-ranging variation of reduction ratios, and various types of motion control enabled. Please choose from among 1,800 models and use them in your AGV/AMR designs.



**Compact and powerful,
perfect for AGV/AMR.**

This compact design is perfect fit for AGV/AMR which needs to be low-to-floor style. We have realized high power output of 0.75 kW at an input voltage of 48 VDC with the SD Series.

**Outdoor specifications
are available.**

The outdoor specifications have an ingress protection rating of IP65. It can also be used for AGV/AMR to be operated outdoors or between buildings.

**Also connectable with
other companies' drives.**

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.



The Best Solutions for AGV/AMR Development

We provide the optimal solution to AGV/AMR that requires high speed-stability and extensive control functions, through our products with high precision functions and performance such as SD series which is compact but produces high output, and V series which offers a wide range of selections.



SD Series



V Series

Low-to-floor, space-saving, compact design.

These low-floor AGV take full advantage of their compact sizes. The left/right wheel two-motor design saves space and allows the AGV to turn when stopped, making advanced operation with tight turns possible.

It also runs at high 0.75 kW output at an input voltage of 48 VDC. F3 Type is both fast and powerful, even during low crawling transport.



Waterproof, vibration resistant, ideal for outdoor advanced operation.

IP65 class waterproofing and 2G vibration resistance drastically improve AGV operation outdoors. This allows for stable operation on asphalt, over bumps, and on wet roads in the rain, for speedy transport even across spacious factory sites.



Perfect collaboration with our gearmotors and drivers made by other companies.

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.

Battery Powers Gearmotor



Driver Tie-Up

Collaboration with Driver Manufacturers

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



ADVANCED MOTION CONTROLS

Driver manufacturers
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 manufacturers
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 AGV
- Software customization available, etc.

Note 1: Combination with most of our gearmotors has been tested. Please contact us for details.
Note 2: Optional support available.

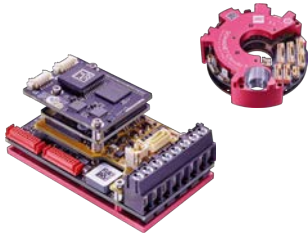
A wide variety of mounting and reduction ratios meet diverse needs.



Gear motor
1800
model

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.



Synapticon

Driver manufacturers
Synapticon

Combination confirmed models
SOMANET Node / SOMANET Node Safety*1

Communication function
EtherCAT

Properties

- Ultra-compact - ROS support
- Navitec (AMR control software) support
- Electromagnetic brake can be driven directly
- Energy saving (with model predictive control function)
- Can be driven by encoder feedback
- Functional safety STO/SBC (SIL3/PLe) installed, etc. (TUV certified, JIS 6802 / ISO 3691-4 support)



Fancy Creativity
佳 创 博 为

Driver manufacturers
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

Driver manufacturers
nissei

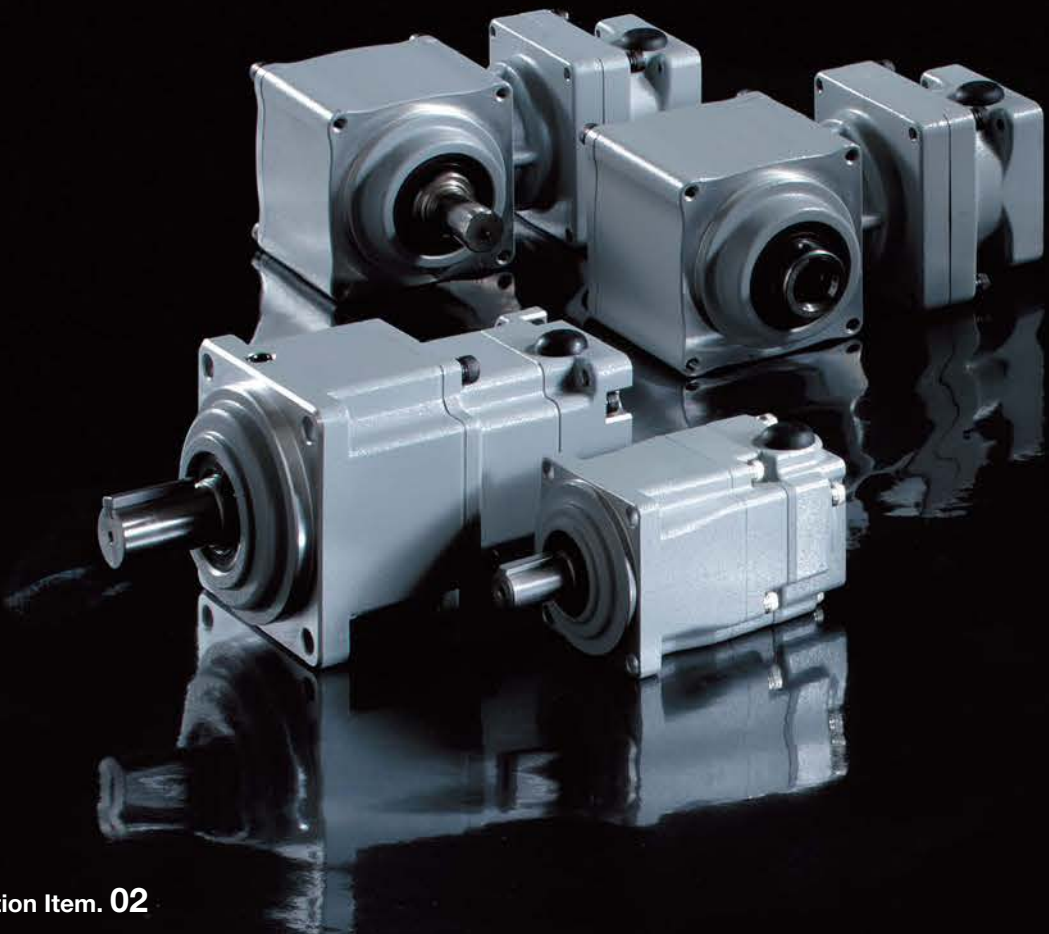
Combination confirmed models
A-BLCD***L* /
A-SDNB080L4 (nissei only driver)

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



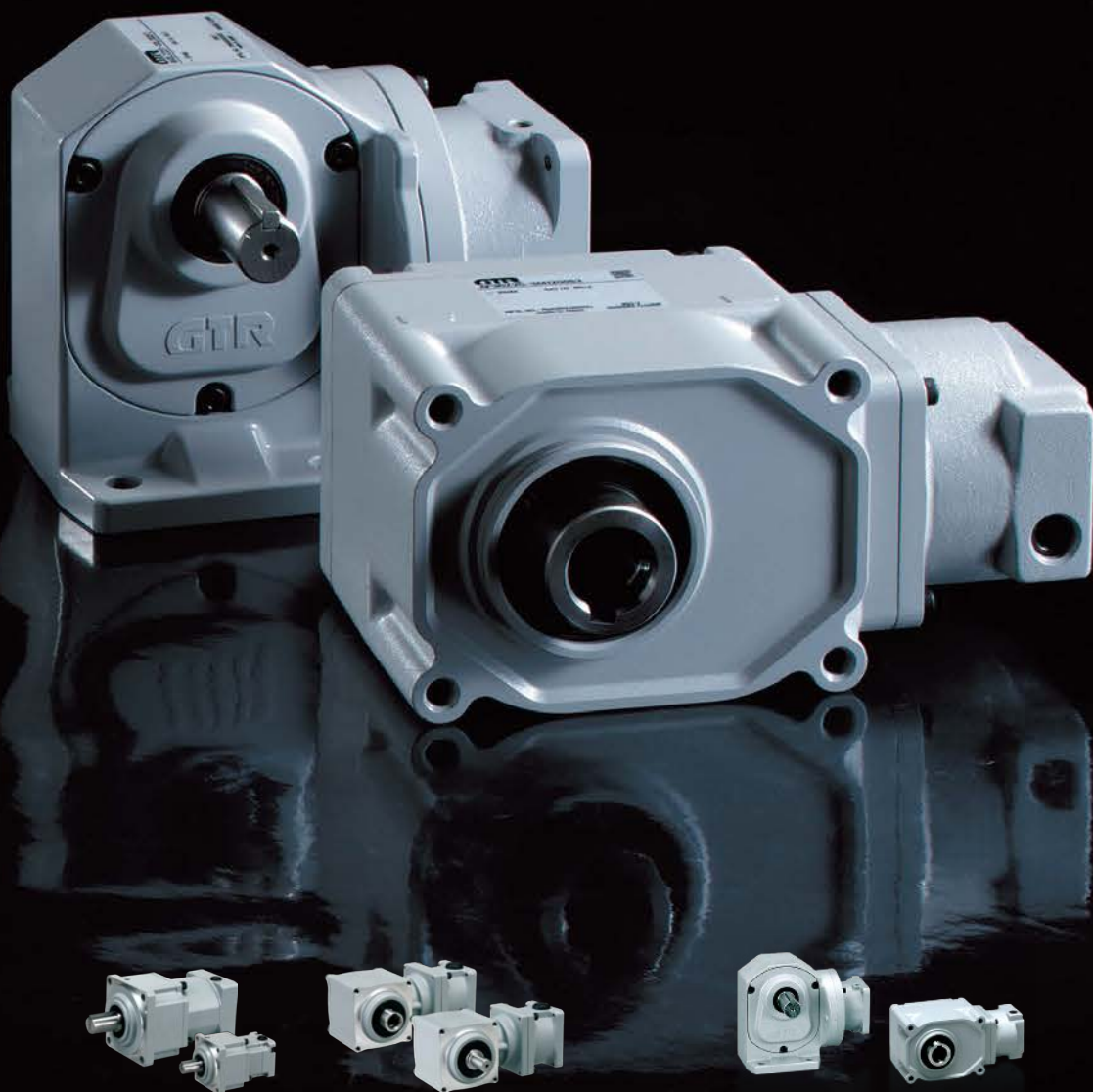


Selection Item. 02

High Precision Reducers for Servo Motors

Reducers that pursue the excellence in compact size and high precision. Meet variety of application demand by providing a wide range of products line-up.

Reducers that control motion with various kinds of servo motors. We have a wide range of reducers for servo motors with reduction ratios of 1/3 to 1/240 and compatible with major servo motors in the Japanese domestic market as well as overseas.



APG / AFC Power: 100 W to 3000 W

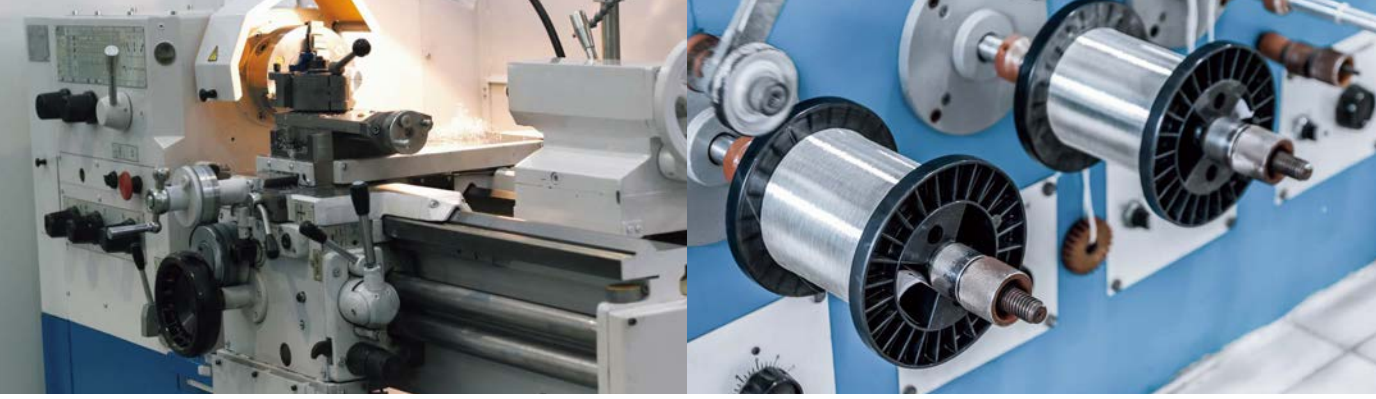
High Precision Reducers for Servo Motors that has accomplish compactness

The high precision reducer APG type is compact and highly rigid due to the adoption of a planetary mechanism, which contributes to downsizing devices. Moreover, the AFC Type features compactness thanks to a specially designed gear case. The reducer can be mounted perpendicularly to the device it saves space on the equipment.

AH2 / AF3 Power: 100 W to 2000 W

The gearhead has the same shape as the Induction Gearmotor

Since the induction gearmotor and gearhead are common, no extra design changes are required while changing specifications. In addition, the concentric hollow shaft/concentric right angle shaft (AF3) is available with backlash accuracy of 1 arc min and 3 arc min. Enables highly accurate positioning control.



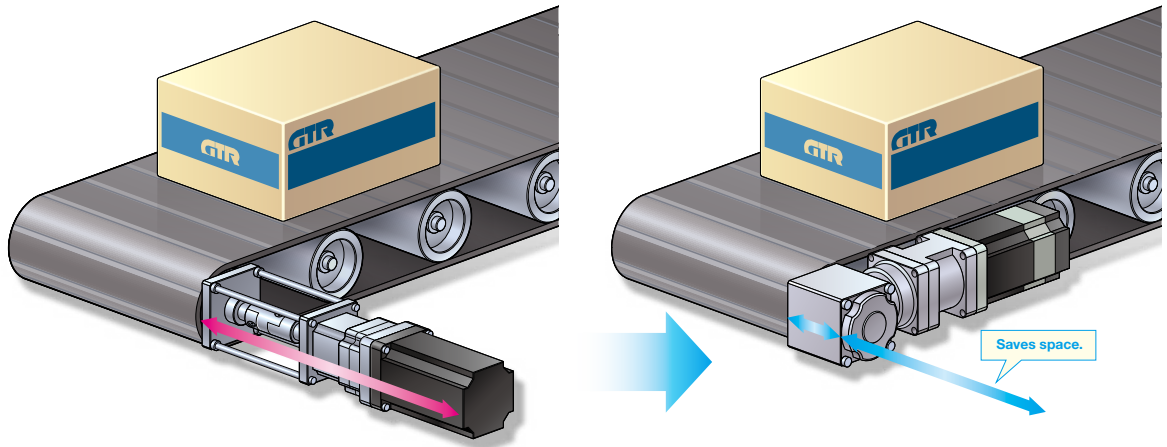
Compact design, Versatile reducers for many applications.

The right angle shaft type of the high precision reducer can be mounted perpendicularly to the device, so that the motor does not protrude from the device, which results in space saving design of your device. Compared to reducers made by other companies, we have achieved formidable compactness.

Our reducers can help save installation space and are suitable for various applications, such as lifting/reversing machines, medical devices (mammography and x-ray equipment), rotary drive machines, grinders and reverse mechanisms.

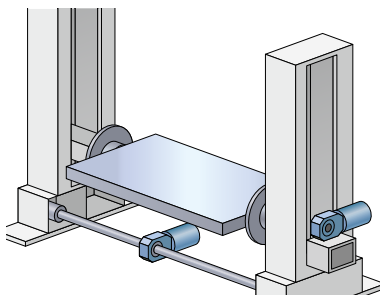
FEATURE

01 Right angle shaft type is designed for space saving

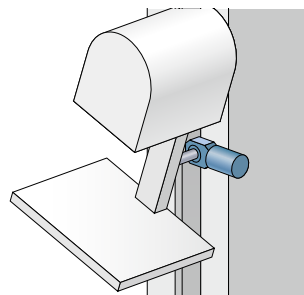


FEATURE

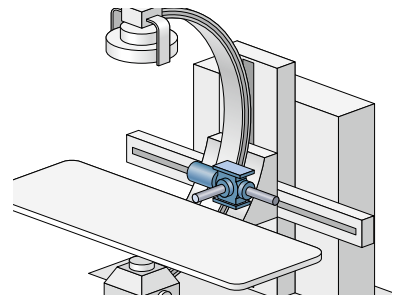
03 Can be installed in limited space for various applications



Lifting machine/Reverser



Medical equipment (mammography)



Medical equipment (radiography equipment)



We propose the optimum reducer using our selection tool.

Our reducers support major servo motors in Japan domestic market as well as overseas.

Select the optimum reducer using the selection tool on our website. In addition, we can mount our reducers on your pre-owned motors too, you just need to ship it to our factory so that we could ship you back an assembled unit.

<https://sentei.nissei-gtr.co.jp/english/servomotor>

Selection of High precision reducer for servo-motor

Start selection from below

> Select by servo-motor



> High precision reducer for servo-motor



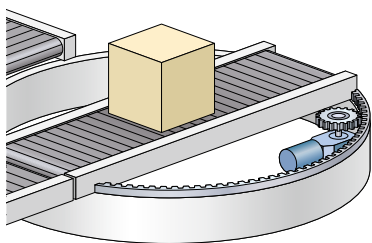
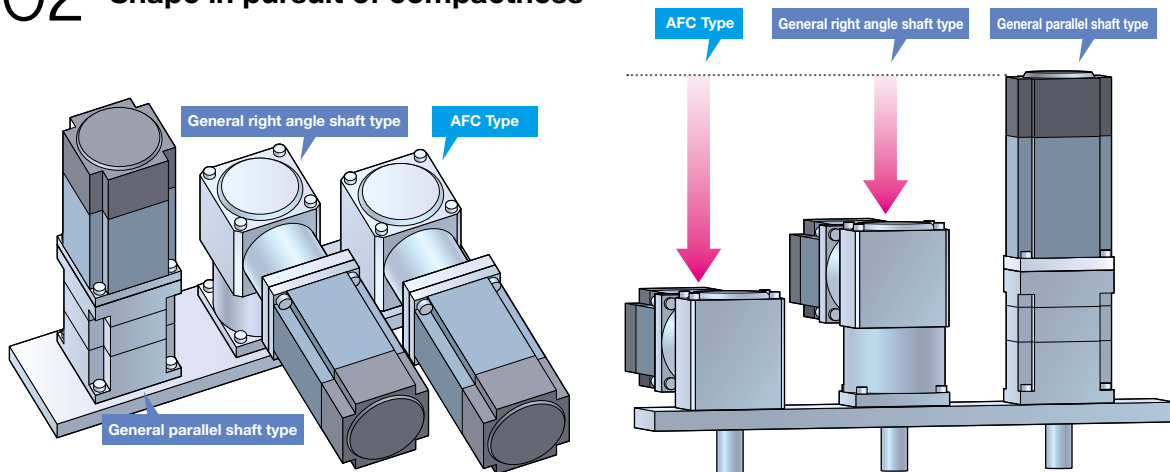
> High Precision Reducer for Servo Motor Calculation Selection Tool

Select the most suitable Product based on the usage conditions of your Device.

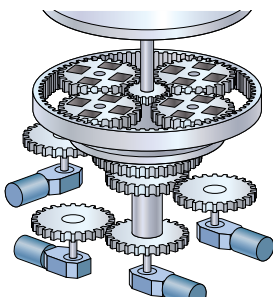


FEATURE

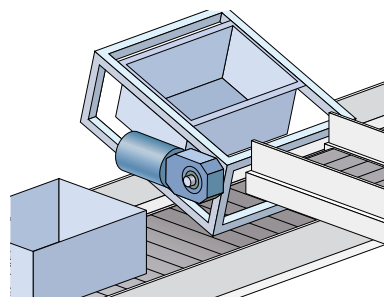
02 Shape in pursuit of compactness



Rotary driver



Grinder



Reverse mechanism

HOW TO SELECT GEARMOTOR

You can select the most suitable gearmotor by using the selection tool on the website.



STEP 01

First select a device.

From among the devices to be installed that are classified by application, select one based on a device to be installed according to the application.



STEP 02

Select a gearmotor series to be used.

Since the functions and properties of each series are described in detail, please check them before selecting your appropriate model.



STEP 03

Select an output shaft type.

From among four types classified based on the directions of the output and motor shafts and the shape of the output shaft, select one suitable for the device to be installed.

04

Select a connection mechanism between the gearmotor and the device.

Select from two types: type to be connected directly to the drive shaft and connection type.
If you desire to keep the installation space compact, we recommend a direct connection type.



STEP 05

Enter your requirement parameters and select a suitable product.

Enter the usage condition values referring to the image diagram of the device. The required items differ depending on the selected mechanism. The table on the right shows the items required to select a product for direct connection for a conveyor.

Use the selection tool on our website.

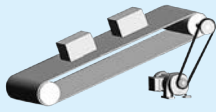
■ Selection of gearmotors

<Selection through website>

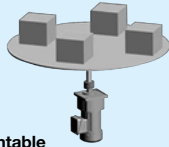
<https://sentei.nissei-gtr.co.jp/english/calculation>

<Send Request to technical customer service Representative>

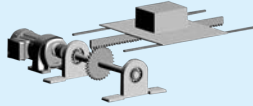
<https://sentei.nissei-gtr.co.jp/english/service.html>



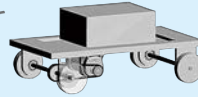
Chain (Belt) conveyor



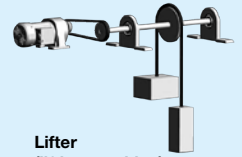
Turntable



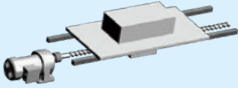
Rack & Pinion



Cart



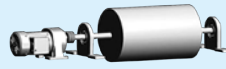
Lifter (lifting machine)



Screw feed



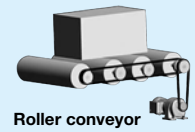
Reverse mechanism



Rotating machine (cylindrical)



Hoist



Roller conveyor



Induction Gearmotor (MID Series/MINI Series)



Battery Powered Gearmotors (12 V/24 V/48 VDC)



Parallel shaft (G3, G Types)



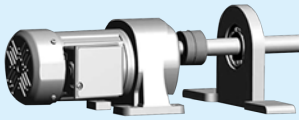
Right angle shaft (H2, H Types)



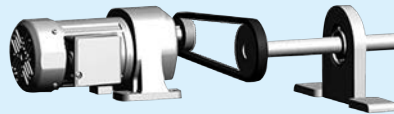
Right angle hollow bore (FS, F2S, F3S Types)



Right angle shaft (FF, F2F, F3F Types)

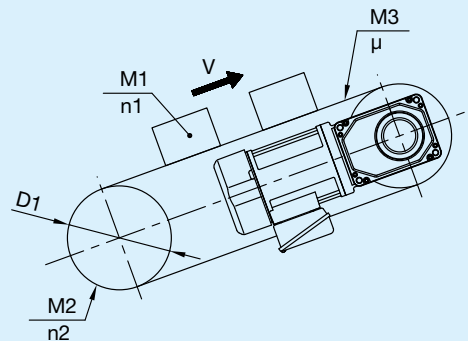


Directly connected to the drive shaft (using a coupling etc.)



Directly connected to the drive shaft (using a sprocket, gear, etc.)

Operating speed $V =$	<input type="text"/>	mm/s
Workpiece weight $M1 =$	<input type="text"/>	kg/piece
Number of workpieces $n1 =$	<input type="text"/>	piece (S)
Sprocket (Roller) weight $M2 =$	<input type="text"/>	kg/piece
Number of sprockets (rollers) $n2 =$	<input type="text"/>	piece (S)
Chain (Belt) weight $M3 =$	<input type="text"/>	kg
Sprocket P.C.C. (roller outer diameter) $D1 =$	<input type="text"/>	mm
Conveyor inclination angle $\theta =$	<input type="text"/>	°
Friction coefficient of chain (belt) and guide $\mu =$	<input type="text"/>	
Service factor (Sf) =	<input type="text"/>	
Correction coefficient of moment of inertia according to operating conditions $C =$	<input type="text"/>	
* Input only required values. Repeated stop precision \pm	<input type="text"/>	mm/s (converted into moving distance)



LINEUP/INDEX

Induction Gearmotor

P.30

G/G3 Type Parallel Shaft



1. Gearmotors/Gearmotors with Brake P.56
2. IP65 Gearmotors/IP65 Gearmotors with Brake P.116
3. Gearmotors with Clutch/Brake P.142
4. Speed Control Gearmotors P.152
5. Reducers (Double Shaft Type) P.168
6. S-Type Reducers (Type which Can be Equipped with Designated Motor) P.178

P.193

H/H2 Type Right Angle Shaft



1. Gearmotors/Gearmotors with Brake P.218
2. IP65 Gearmotors/IP65 Gearmotors with Brake P.252
3. Gearmotors with Clutch/Brake P.270
4. Speed Control Gearmotors P.276
5. Reducers (Double Shaft Type) P.290
6. S-Type Reducers (Type which Can be Equipped with Designated Motor) P.298

P.307

F Type Right Angle Hollow Bore/ Right Angle Shaft



1. Gearmotors/Gearmotors with Brake P.322
2. IP65 Gearmotors/IP65 Gearmotors with Brake P.344
3. Reducers (Double Shaft Type) P.354
4. S-Type Reducers (Type which Can be Equipped with Designated Motor) P.360

P.365

F2/F3 Type Concentric Right Angle Hollow Bore/Concentric Right Angle Shaft



1. Gearmotors/Gearmotors with Brake P.390
2. IP65 Gearmotors/IP65 Gearmotors with Brake P.426
3. Speed Control Gearmotors P.440
4. Reducers (Double Shaft Type) P.450
5. S-Type Reducers (Type which Can be Equipped with Designated Motor) P.456

Technical Documentation

P.463

Battery Powered Gearmotors

P.584

VG/APG Type Parallel Shaft

1. Battery powered Gearmotors P.590



P.601

VH Type/Right Angle Shaft

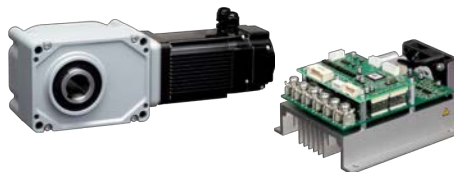
1. Battery powered Gearmotors P.604



P.609

VF3S/VF3F Type Concentric Right Angle Hollow Bore/Concentric Right Angle Shaft F3S Type/Right Angle Shaft Flange Mount on Both Sides

1. Battery powered Gearmotors P.614



Control Unit Specifications

P.625

Technical Documentation

P.661

LINEUP/INDEX

High Precision Reducers for Servo Motors

[P.672](#)

Motor Matching/Motor Power Design List

[P.673](#)

[P.687](#)

APG/AG3 Type Parallel Shaft



1. Compact High Precision Reducers for Servo Motors [P.692](#)
2. Low backlash High Precision Reducers for Servo Motors [P.704](#)

[P.719](#)

AH2 Type Right Angle Shaft



1. Low backlash High Precision Reducers for Servo Motors [P.722](#)

[P.729](#)

AFC Type Right Angle Hollow Bore/Right Angle Shaft



1. Compact High Precision Reducers for Servo Motors [P.734](#)

[P.755](#)

AF3 Type Concentric Right Angle Hollow Bore/Concentric Right Angle Shaft



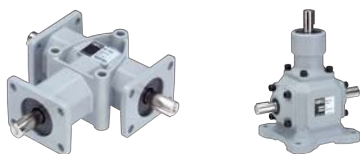
1. Low backlash High Precision Reducers for Servo Motors [P.762](#)

Technical Documentation

[P.789](#)

KOMPASS Bevel Gearbox

[P.842](#)



1. Bevel Gearboxes <K Type> [P.848](#)
2. Bevel Gearboxes <KN Type> [P.852](#)

Technical Documentation

[P.859](#)

Technical Documentation

[P.867](#)

Option

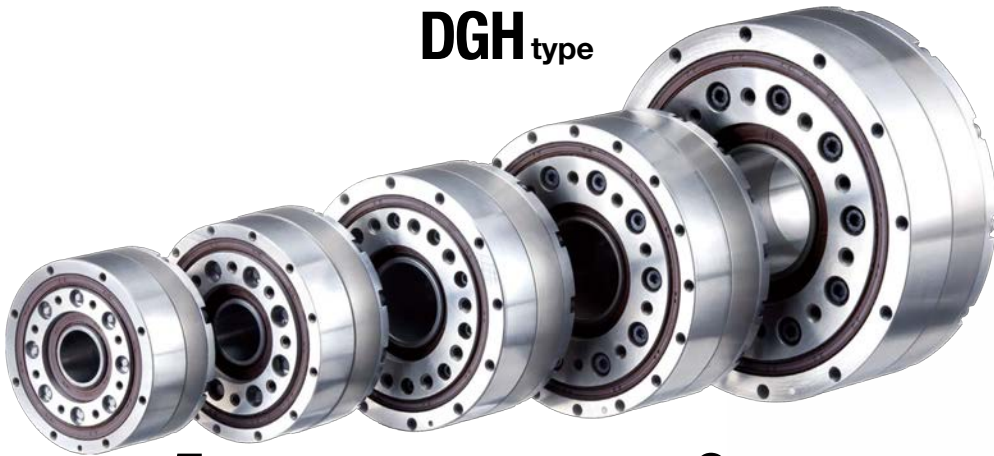
[P.893](#)

Index

[P.907](#)

Large Hollow Shaft with High Stiffness and High Torque

DGH type



5 Frame Size

Outer Diameter: 71mm·81mm·95mm·110mm·142mm

3 Reduction Ratio

1/19·1/29·1/59

Powerful drive, High resistance against loads and impacts.
Large hollow bore shaft is able to contain a thick cable.

Initiatives.1

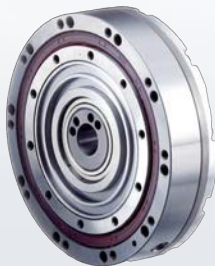
High Stiffness Reducers

DGH / DGF type

High Stiffness Reducers High Stiffness&High Torque/
Flat, Lightweight Type

Flat and lightweight with input bearing inside

DGF type



3 Frame Size

Outer Diameter: 71.5mm·81.5mm·91.5mm

2 Reduction Ratio

1/50·1/100

The planetary gear is inside the cross roller bearing, enabling thinness and lightweight.

It will give you greater freedom on equipment design.



In multiple ways, High accuracy drive.

**The High Stiffness Reducer has functionality which can meet the needs for increased productivity as well provides efficiency from every angle.
For Fast and Powerful industrial robots or FA products.
Large hollow shaft enables great freedom in product design and composition.**

We will provide greater performance than ever in various applications with High Stiffness Reducer.

■ Please visit our website for details. <https://www.nissei-gtr.global/en/rc>





High humidity environment
Wet environment
Clean rooms

Food
Chemicals
Cosmetics
Semiconductor-related, etc.

Initiatives.2

Optimal for contamination countermeasures

External screw SUS options



Option that allows screws exposed on the outside of products to switch to SUS material with less concerns due to peeling plating or rust.

We support the needs of security of all industries where contamination countermeasures are required.

Corresponding to the restrictions on the use of special metals

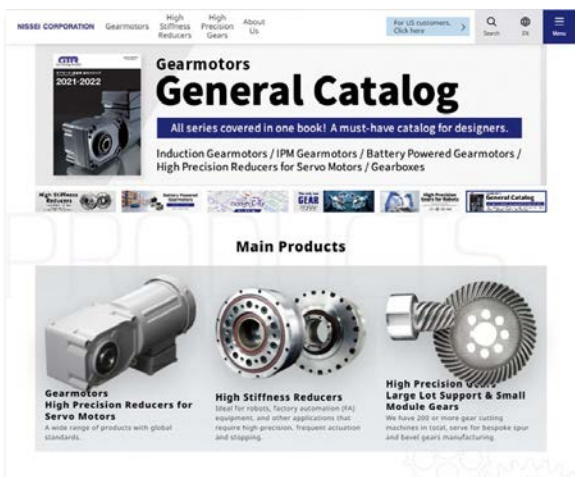


Secondary battery manufacturing equipment

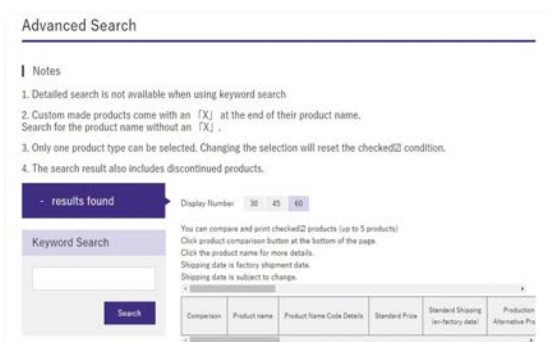


https://www.nissei-gtr.global/en/

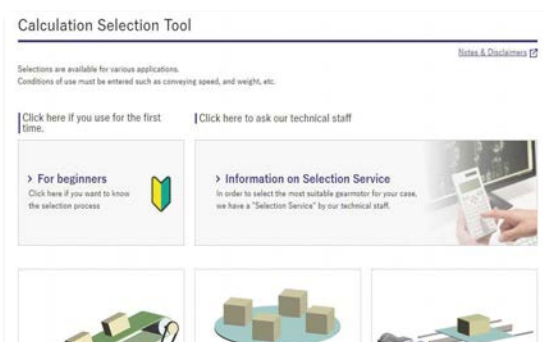
If you have any questions or require more information, please visit our Corporation's website.



Main website



Refined search



Calculation and selection tool

You can select products and download CAD data on from our website.

If you move to the gearmotor page from the top page, you can select the gearmotor based on the product name and application. By narrowing down the conditions and entering the usage condition values, you can identify the product and download CAD data and instruction manuals.

Standards	Specification	No standard			
	Overseas Model	Convert to overseas models			
Weight/Packaging	Approximate Weight	5 kg			
	Packaging Specification	Cardboard 516 × 308 × 270			
Product Data	Dimensional Drawings	PDF	2D CAD	DXF	
	Test Report	PDF			
	Control Unit Option				
Compulsory Option					
Product Name	Name	Unit price	PDF	DXF	3D
SCP-201L	Speed Controller 1-phase 200V	Please contact us.	PDF	DXF	

Select a product, and download related data.

COMPANY PROFILE

Company Overview

Trade name	NISSEI CORPORATION
Location of headquarters	3.475 billion yen
Foundation	March 12, 1942
Capital	1-1, Inoue, Izumi-cho, Anjo City, Aichi Prefecture
Description of business	<ol style="list-style-type: none"> 1. Manufacture and sale of various types of reducers. 2. Manufacture and sale of various types of gears.

History

March 1942	Founded as Japan Sewing Machine Needle Manufacturing in Nagoya.
June 1955	Started the production of small-size gears to orders on a nationwide scale.
May 1964	Established the Anjo Plant at 1, Inoue, Izumi-cho, Anjo City, Aichi Prefecture and started operation (current head office and head office plant).
July 1965	Re- Named as Nissei Industries Co., Ltd.
May 1969	Started with the production and sell power transmission devices, including reducers, gearboxes, clutches, and brake units.
October 1974	Begin to manufacture and sell spur gear reducer "GTR" gearmotor.
May 1980	Begin to produce and sell "GTR" H Type right angle shaft reducer (hypoid gearmotor).
November 1984	Begin production and sale of the "GTR" MINI Series gearmotor (15 W to 90 W).
September 1985	Established the Anjo South Plant which was specializing in power transmission devices.
March 1987	Begin production and sale of HRHs (high-ratio hypoid gears).
October 1991	Begin production and sale of the "GTR-F Series" right angle hollow bore/right angle shaft gearmotors.
May 1992	Begin production and sale of the "GTR-V Series" (variable speed gearmotors).
April 1998	Begin production and sale of the "GTR-F2 Series" concentric right angle hollow bore/right angle shaft gearmotors.
March 2000	Acquired "ISO 9001" certification.
October 2000	Changed the trade name to NISSEI CORPORATION.
December 2000	Acquired "ISO 14001" certification.
October 2001	Completed the extension construction work of the Anjo South Plant (introduced cell lines to assembly).
April 2002	Begin production and sale of the "GTR-A Series" (low-backlash reducers).
September 2002	Begin production and sale of battery powered gearmotors.
October 2003	Begin production and sale of the "GTR" MID Series IP65 gearmotors.
February 2004	Begin production and sale of the "GTR" MID Series explosion-proof gearmotors.
December 2004	Begin production and sale of the bevel gearbox "KOMPASS" K Type lightweight type.
July 2006	Begin production and sale of the "GTR-F3 Series" concentric right angle hollow bore/right angle shaft gearmotors.
April 2007	Established the Second Reducer plant.
January 2008	Begin production and sale of the "GTR-AR compact high precision reducer" AGC/AFC Type.
July 2009	Established a new subsidiary, Nissei Trading (Shanghai) Co., Ltd., in China.
February 2010	Begin production and sale of the IPM high-efficiency gearmotors.
July 2011	Begin production and sale of the IPM high-efficiency gearmotor position control type. Begin production and sale of GTR high-efficiency gearmotors (IE2, GB2).
November 2011	Established a new subsidiary, Nissei Gear Motor Mfg. (Changzhou) Co., Ltd., in China.
November 2012	Established Nissei Trading (Shanghai) Co., Ltd. Shenzhen Subsidiary Company in China.
October 2013	Begin production and sale of the "GTR-AR high precision planetary reducers" APG Type.
November 2013	GTR gearmotors achieved cumulative sales volume of ten million units.
June 2014	Begin production and sale of GTR medium-size gearmotors conforming to the top runner standard (IE3).
October 2018	Begin production and sale of the "GTR" MID Series (NEXT GTR).
March 2020	Begin production and sale of battery powered gearmotor SD Series
February 2021	Begin production and sale of "High Stiffness Reducer" (large hollow shaft type).
October 2022	Begin production and sale of "High Stiffness Reducer" (flat, lightweight type).



