

NISSEI CORPORATION

Company Overview

Trade name	NISSEI CORPORATION		
Capital	3.475 billion yen		
Location of headquarters	Anjo City, Aichi Prefecture		
Plants	Main plant, Anjo Minami Plants, Gearmotors No.2 Plant		
Description of business	Reducers, variable speed reducers, small gears (made-to-order gears), etc.		

Sales and Marketing Management

Overseas Sales Sect.

1-1, Inoue, Izumi-cho, Anjo City, Aichi Prefecture TEL: <0566>92-5312 FAX: <0566>92-7002 E-mail: oversea@nissei-gtr.co.jp

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

If you have any problems, or need any further information, please visit the NISSEI CORPORATION website.

NISSEI CORPORATION website

For introduciton website of NISSEI CORPORATION





High Stiffness Reducers

For introduciton website of High Stiffness Reducers



Selection Tool

For product search or CAD data download



Digital catalog

For browsing the comprehensive catalog of

NISSEI CORPORATION





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 Induction Gearmotor



GTR Lineup

Induction Gearmotors

Motor Power 15 W to 90 W Reduction Ratio 1/5 to 1/1800

RoHS : Lus (€ (((()))









Parallel Shaft (G3)





Right Angle Shaft (H2)



Concentric Right Angle Hollow Bore/ Concentric Right Angle Shaft (F2)



Right Angle Hollow Bore/ Right Angle Shaft (F)



Concentric Right Angle Hollow Bore/ Concentric Right Angle Shaft (F3)



IPM Gearmotors

Motor Power 0.1 kW to 2.2 kW Reduction Ratio 1/5 to 1/1500

RoHS € ₩ (€ (Speed Control Type



Speed Control Type

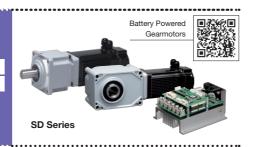
Battery Powered Gearmotors

50 W to 0.4 kW 1/5 to 1/240

RoHS



0.75 kW 1/10 to 1/60



High Precision Reducers for Servo Motors

Motor Power 100 W to 3000 W Reduction Ratio 1/3 to 1/240



KOMPASS Bevel Gearbox

Ø10 to Ø40 1/1, 1/2



Parallel Shaft/ Right Angle Hollow Bore/ Planetary (APG) Right Angle Shaft (AFC)









Low Backlash Specification (AG3,AH2,AF3)



for Servo Motors

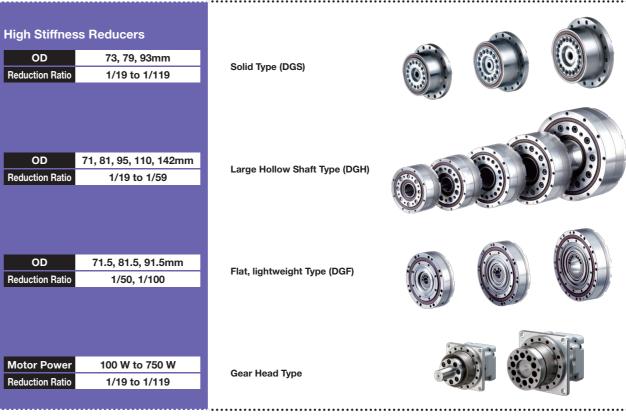


High Stiffness Reducers

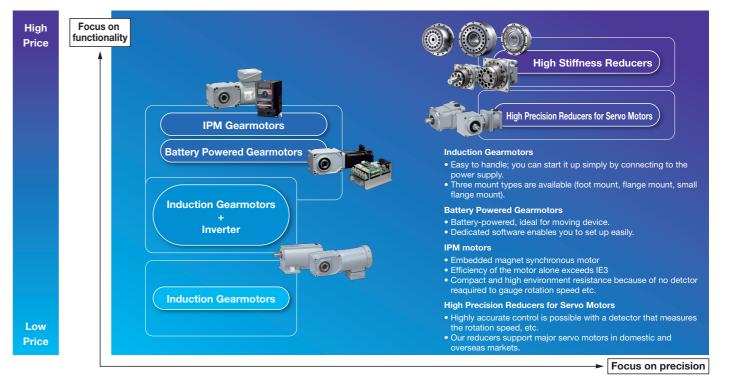
In multiple ways, High accuracy drive.

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.

High Stiffness Reducers Lineup



Product System Diagram



01

High Stiffness Reducers

Best fit for wide variety of use

Choose optimum size from three types, DGS type, DGH type and DGF type, for robots, FA equipment, and other various applications.

Outstanding scalability meet customer's needs with high performance.





Model configuration table

input bearing inside

Frame Size Reduction Ratio Type High torque and wide range DGS of reduction ratios 010 1/19, 1/29, 1/49, 1/79, 1/99 030 1/19, 1/29, 1/49, 1/79, 1/99, 1/119 050 1/19, 1/29, 1/49, 1/79, 1/99, 1/119 Gear Easily couples with motors Head 1/19, 1/29, 1/59 030 1/19, 1/29, 1/59 Large Hollow Shaft with High **DGH** 040 **1/19, 1/29, 1/59** Stiffness and High Torque 080 1/19, 1/29, 1/59 150 1/19, 1/29, 1/59 005 1/50, 1/100 Flat and lightweight with



DGH type
Large Hollow
Shaft

1
2

DGF type
Flat,
lightweight
2

The relationship between the three types

- 1. High Stiffness & High Torque
- 2. Input bearing inside Compact
- 3. Low reduction
- 4. Hollow diameter

Powerful drive, High resistance against loads and impacts.

Large hollow bore shaft is able to contain a thick cable.

1/50, 1/100

1/50, 1/100



020

030





The planetary gear is inside the cross roller bearing, enabling thinness and lightweight. It will give you greater freedom on equipment design.







High torque, a wide range of reduction ratios, and high stiffness for resistance to impacts. A compact and flexible design is possible.





The Gear Head type can be easily coupled with the servo motors of other companies.

Gear Head

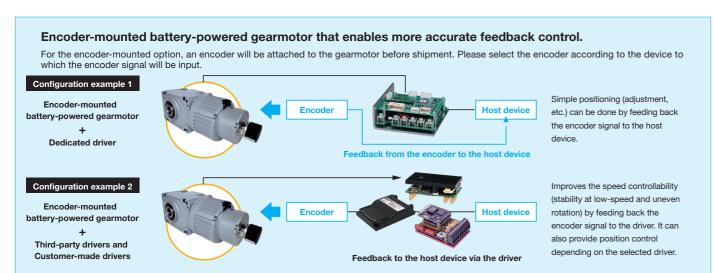
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Variations by type		V type	SD type
Capacity	12 VDC	Voltage 24 VDC	48 VDC
50 W	Parallel shaft		
70 W		For AMR	
0.1 kW	Parallel shaft/Right angle shaft		
0.2 kW		Concentric hollow shaft/ Concentric solid shaft	
0.4 kW			
0.75 kW			Parallel shaft/Right angle shaft

*Please contact us separately for detailed specifications of Gearmotors for



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

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





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.

Power: 100 W to 3000 W Reduction ratio: 1/3 to 1/100 Backlash: 3 arc min. 15 arc min Reduction ratio: 1/3 to 1/60

Backlash: 3 arc min, 30 arc min

Meet variety of application demand by providing a wide range of products line-up.

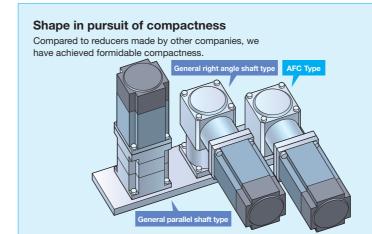
The gearhead has the same shape as the Induction Gearmotor

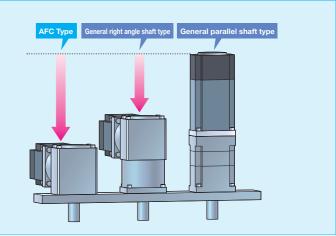
Power: 100 W to 2000 W

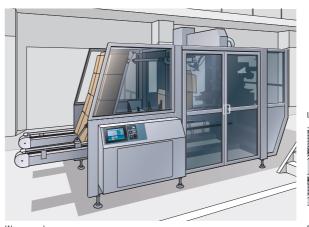
Since the induction gearmotor and gearhead are common, no extra design changes are required while changing specifications. In addition, the concentric hollow shaft/concentric right angle shaft (AF3) is available with backlash accuracy of 1 arc min and 3 arc min. Enables highly accurate positioning

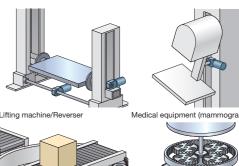
Reduction ratio: 1/5 to 1/200 Backlash: 30 arc mir Reduction ratio: 1/5 to 1/240 AH2 Backlash: 30 arc min

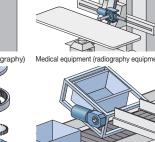
> 1/10 to 1/180, 1/5 to 1/240 1 arc min, 3 arc min, 30 arc min











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