

# Servo Gearheads

**DIEQUA**  
Corporation

## Gear Technologies

- Planetary
- Bevel
- Worm
- Helical
- Hypoid
- Cycloidal

[www.diequa.com](http://www.diequa.com)  
630-980-1133



# The DieQua Gearhead Program:

Optimizing and matching gearhead technology with rotary motion control requirements.

- Widest selection of servo gearhead designs
- Multiple backlash precision levels
- A variety of inline and right angle configurations
- A variety of shaft and mounting options
- Largest number of ratios offered
- Adapter plates for all servo and stepper motors
- Application and gearhead selection assistance
- Special designs and customized solutions

Different technologies provide different benefits!

## Precision Planetary Gearheads

The **Sesame series** provides a variety of precision, performance, configuration, and price levels to satisfy the full range of motion control application requirements.

### *Specifications:*

- 3 precision and performance levels
- Backlash values from 15 to below 1 arc minute
- Frame sizes from 42 mm to 220 mm
- Industry standard mounting dimensions



## Precision Worm Servo Gearheads

The **Dynabox series** provides superior motion control with backlash as low as 1 arc minute. Precision worms result in high efficiency and quiet operation.

### *Specifications:*

- 1, 5, or 10 arc minute backlash precision
- Torque capacities from 18-8000 Nm
- 9 Standard ratios from 3.125:1 to 90:1
- 5 output shaft configuration options



## Economical Worm Servo Gearheads

The **Varvel series** offers low cost torque multiplication, in a right angle configuration, for applications with lower dynamic motion control profile requirements.

### *Specifications:*

- Center distances from 28 mm to 110 mm
- Single stage ratios from 5:1 to 100:1
- Inch or Metric output shafts
- Torque capacities from 8 Nm - 690 Nm



# High Torque Helical Servo Gearheads

The **WATT Drive series** provides economical motion control for high torque applications with four inline and right angle helical, helical worm and helical bevel designs.

## *Specifications:*

- Torque capacities up to 14,000 Nm
- Backlash down to 5 arc minutes
- Hundreds of ratios
- Inch or metric output shafts



# Precision Hypoid Gearheads

The **ServoFoxy series** offers superior performance and connection versatility for highly dynamic servo driven applications requiring low to mid-range ratios.

## *Specifications:*

- Single stage ratios from 5:1 to 15:1
- Torque capacities from 40 Nm to 850 Nm
- 6 output shaft configuration options
- Integral flexible bellow input adapter



# Precision Spiral Bevel Gearheads

The **ServoFoxy series** offers ground spiral bevel gearing for extreme accuracy in low ratios, or higher ratios when coupled with the optional planetary input stage.

## *Specifications:*

- Backlash as low as 2-3 arc minutes
- Ratios from 1:1 to 60:1
- 4 output shaft configuration options
- Torque capacities from 10 Nm to 1000 Nm

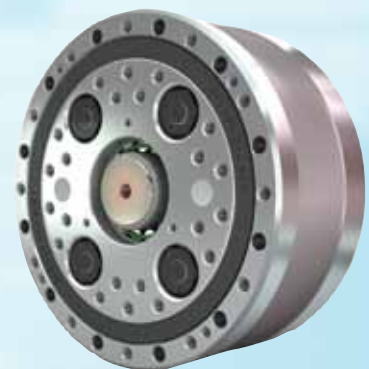


# Precision Cycloidal Gear Units

The **Spinea TwinSpin series** offers the ultimate in rotary position control accuracy with torque density, torsional rigidity, and moment capacity second to none.

## *Specifications:*

- True zero backlash
- 4 output mounting designs
- Diameters from 50 mm to 300 mm
- Ratios from 33:1 to 190:1



# The DieQua Advantage

DieQua Corporation has been a manufacturer and supplier of precision motion control components for over 30 years. We offer the widest range of servo gearhead and speed reducing solutions available from a single source. Featuring right angle and inline designs with multiple backlash precision levels, the largest number of ratios, and several mounting and output options, we have the drive that meets your needs.

## **Sales**

DieQua Corporation has established a network of sales associates and high tech distributors, supported by our inside sales team, to provide personal service to our valued customers.



## **Customer Service**

DieQua Corporation is dedicated to being your most valuable supplier. From technical support to on-time delivery, you can count on DieQua to be a reliable extension of your design team.

## **Engineering**

DieQua Corporation has several decades of combined experience specifying rotary motion control components. This assures the proper identification and selection for your unique requirements.

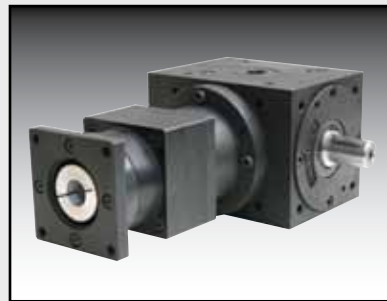


## **Manufacturing**

DieQua manufacturers or assembles the majority of the products we provide. This adds valuable flexibility to provide reliable and cost effective on-time delivery of your production orders.

## **Warehousing**

DieQua Corporation maintains an extensive inventory of common gearheads and servo motor connection components to provide quick delivery of prototypes, small orders and spare parts.



## **Special Designs**

DieQua Corporation offers component dimension modifications or complete special designs. These capabilities compliment our philosophy of offering the best possible solution available.

**DIEQUA**  
Corporation

Motion Components and Engineering Services

180 Covington Drive, Bloomingdale, Illinois USA 60108-3105

Phone: 630-980-1133 Fax: 630-980-1232

Email: [info@diequa.com](mailto:info@diequa.com)

Web: [www.diequa.com](http://www.diequa.com)

Sales Partner: