



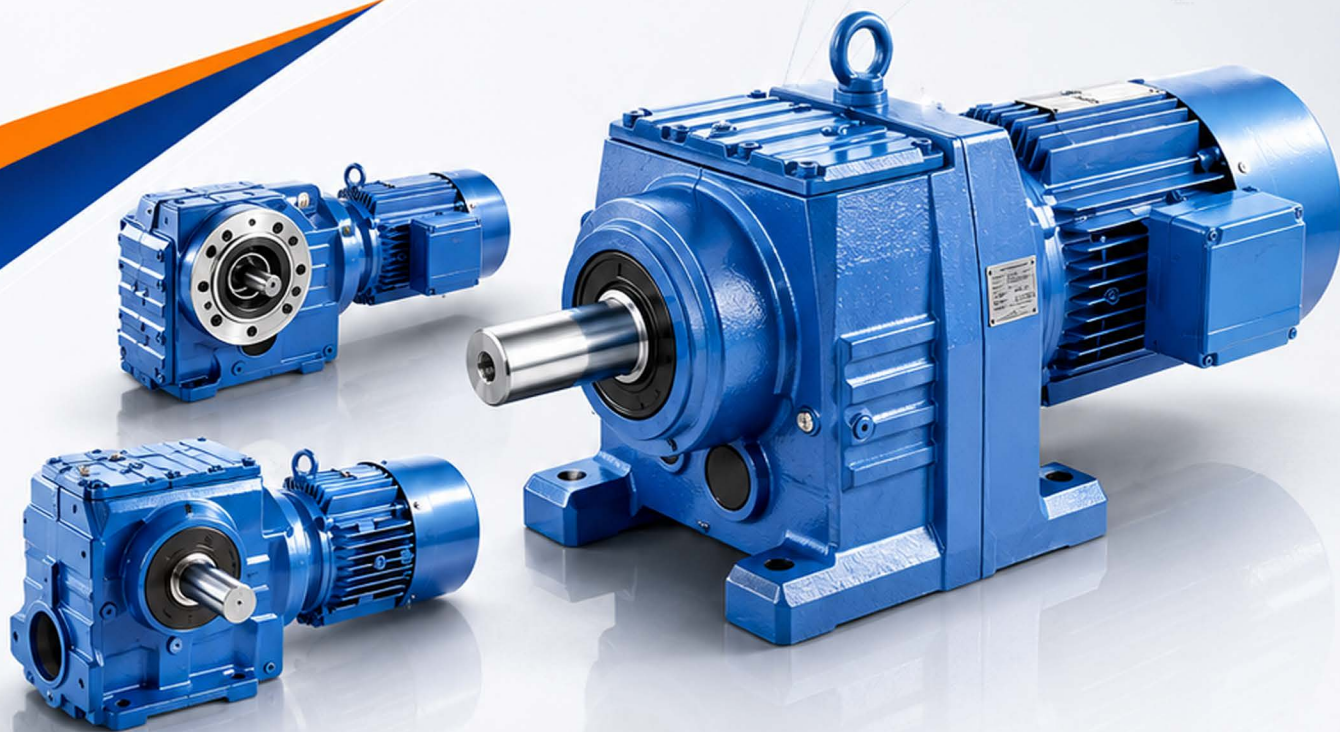
**SHANDONG  
CHANGZHENG**

Machinery Equipment Manufacturing Co., Ltd.

Gear Reducer & Industrial Gearbox Manufacturer

# INDUSTRIAL GEAR REDUCERS & GEARBOX SOLUTIONS

Customized Solutions • Since 1993 • Global Export



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**Product Catalog**

Gear Reducer Product Catalog



**SHANDONG CHANGZHENG**

Machinery Equipment Manufacturing Co., Ltd.

Gear Reducer & Industrial Gearbox Manufacturer

# COMPANY PROFILE

## Professional Gear Reducer & Industrial Gearbox Manufacturer

Shandong Changzheng Machinery Equipment Manufacturing Co., Ltd. is a professional manufacturer of industrial gear reducers and gearbox solutions based in Boshan, Zibo, China. Founded in 1993, the company specializes in the design, manufacturing, and service of mechanical power transmission equipment.

Our product range includes CZR Series helical gear motors, CZS Series helical-worm gear motors, CZF Series parallel shaft helical gear motors, CZK Series helical-bevel gear motors, RV Series aluminum worm gear reducers, YCJ Series gear motors, MB Series stepless speed variators, H/B Series heavy-duty industrial gear units, and other customized transmission solutions.

With more than 1,600 product specifications and strong customization capability, Changzheng provides reliable transmission solutions for cement, mining, metallurgy, power generation, chemical processing, food processing, and material handling industries.



**SINCE  
1993**

30+ Years of  
Manufacturing Experience



**1,600+**

Product  
Specifications



**CUSTOMIZED**

Non-standard Gearbox  
Solutions



**ISO 9001:2015**

Certified Quality  
Management System

## APPLICATIONS



Cement



Mining



Metallurgy



Power  
Generation



Chemical  
Processing



Material  
Handling

## QUALITY & CERTIFICATION



The company operates under an ISO 9001:2015 certified quality management system and is recognized as a Contract-honoring and Creditworthy Enterprise.



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Product Catalog  
Gear Reducer Product Catalog



# OUR CAPABILITIES

We provide reliable products and solutions to meet different industry needs, creating more value for our global partners.



## OEM & ODM MANUFACTURING

Manufacturing based on customer drawings, samples, specifications, or private label requirements.



## CUSTOM GEAR SOLUTIONS

Design and manufacture non-standard gear reducers for special working conditions and application requirements.



## INDUSTRY SOLUTIONS

Reliable drive solutions for cement, mining, metallurgy, power generation, chemical processing, material handling and other industries



## ENGINEERING SUPPORT

Professional product selection, technical consultation, and application engineering support to help you achieve the best performance.



## QUALITY ASSURANCE

ISO 9001:2015 certified manufacturing with strict quality control and inspection throughout every production process.



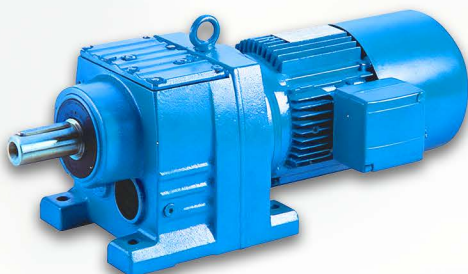
## GLOBAL EXPORT SERVICE

Export support, reliable delivery, and responsive technical assistance for international customers.





## ■ R Series Helical Gear Motors



### Product Description

The R Series Helical Gear Motors offer a compact and efficient drive solution with transmission efficiency of up to 96%. Designed for smooth operation, they provide low energy consumption, low noise levels, and reliable performance. High-quality alloy steel gears are carburized, hardened, and precision-machined to ensure durability and efficient power transmission. Combined with a rigid cast iron housing, the CZR Series is suitable for a wide range of industrial drive applications.

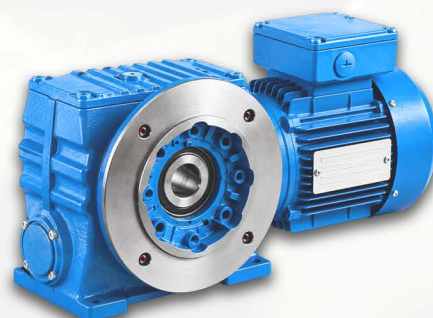
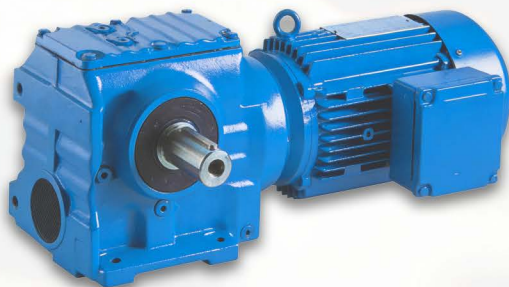
### Key Features

- Helical gear transmission
- Efficiency up to 96%
- Compact design
- Low noise operation
- Carburized and hardened alloy steel gears
- Rigid cast iron housing

### Technical Data

- |                  |                                   |
|------------------|-----------------------------------|
| • Model:         | CZR37 – CZR167<br>CZRX57 – CZR107 |
| • Power Range:   | 0.37 – 160 kW                     |
| • Ratio Range:   | 1.30 – 229.71                     |
| • Output Torque: | 20 – 1800 N·m                     |

## ■ S Series Helical-Worm Gear Motors



### Product Description

The S Series Helical-Worm Gear Motors combine helical and worm gear transmission in a compact right-angle drive configuration, providing flexible installation and reliable performance. Featuring a modular motor interface and hardened gear teeth, they offer high load capacity, excellent wear resistance, smooth operation, and low noise levels for a wide range of industrial applications.

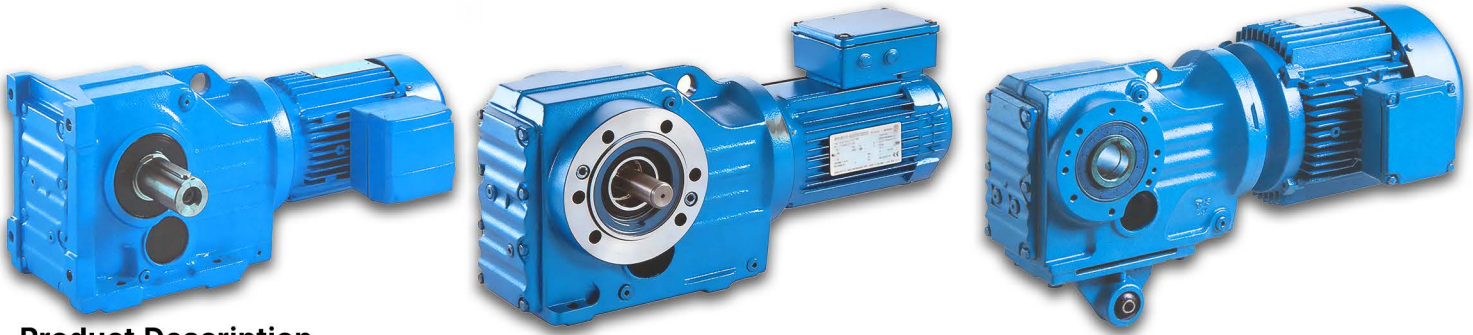
### Key Features

- Helical-worm gear transmission
- Right-angle output configuration
- Compact design
- High load capacity
- Low noise operation

### Technical Data

- |                  |                |
|------------------|----------------|
| • Model:         | CZR37 – CZR167 |
| • Power Range:   | 0.37 – 22 kW   |
| • Ratio Range:   | 6.80 – 260.95  |
| • Output Torque: | 95 – 4200 N·m  |

## ■ K Series Helical-Bevel Gear Motors



### Product Description

The K Series Helical-Bevel Gear Motors feature a compact right-angle drive design with transmission efficiency of up to 96%, making them ideal for space-constrained industrial applications. Manufactured with precision-machined, heat-treated alloy steel gears and a rigid cast iron housing, they provide high load capacity, smooth operation, low noise levels, and long service life. Available with a wide range of motor options to suit diverse drive requirements.

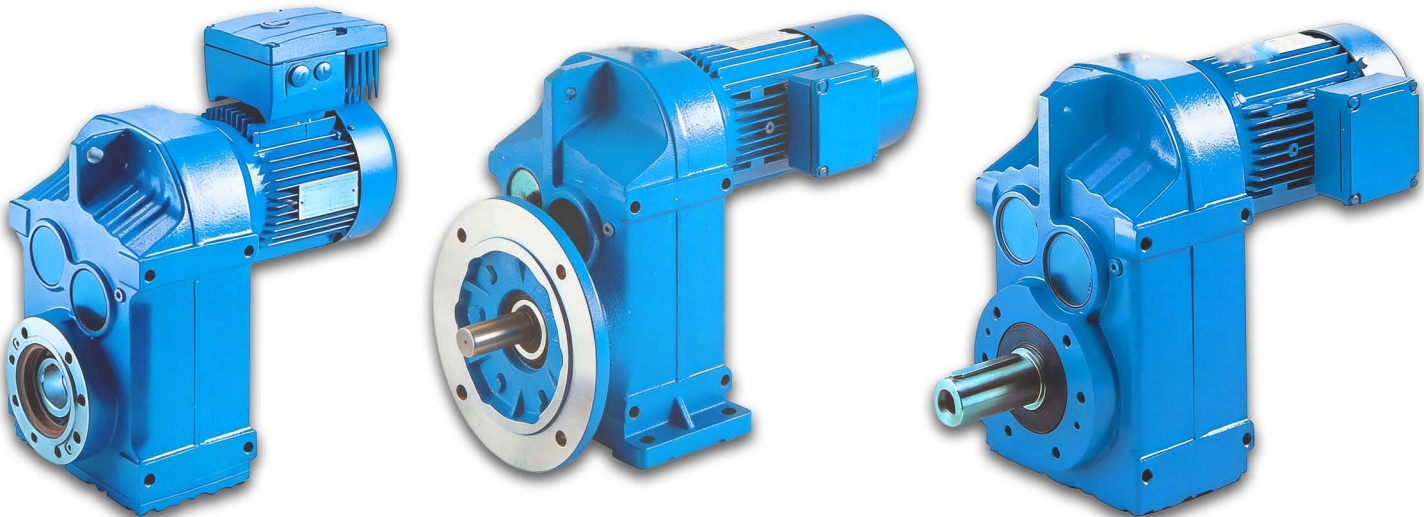
### Key Features

- Helical-bevel gear transmission
- Right-angle drive
- Efficiency up to 96%
- High load capacity
- Compact design

### Technical Data

- Model: CZK37-CZK187
- Power Range: 0.37 - 200 kW
- Ratio Range: 5.36 - 180
- Output Torque: 200 - 50000 N·m

## ■ F Series Parallel Shaft Helical Gear Motors



### Product Description

The F Series Parallel Shaft Helical Gear Motors feature a compact design, high transmission efficiency, and excellent load-carrying capacity for a wide range of industrial drive applications. Precision-machined, carburized, and hardened alloy steel gears, combined with a rigid cast iron housing, ensure reliable power transmission and long service life.

### Key Features

- Parallel shaft design
- Efficiency up to 96%
- Compact design
- High load capacity

### Technical Data

- Model: CZF37 - CZF157
- Power Range: 0.12 - 200 kW
- Ratio Range: 3.77 - 281.71
- Output Torque: 200 - 18000 N·m

## ■ H/B Series Industrial Gear Units



### Product Description

The H/B Series Industrial Gear Units feature a modular design that can be adapted to meet specific industry requirements. Available in parallel shaft and right-angle configurations, with both horizontal and vertical mounting options. Optimized housing design and enhanced heat dissipation reduce operating temperature and noise levels. Precision-machined hardened gears ensure high power transmission, reliable operation, and long service life.

### Key Features

- Modular design
- Parallel shaft and right-angle versions
- High torque capacity
- Optimized thermal performance
- Heavy-duty operation

### Technical Data

- Model: H-6 H-8 H-10 H-12 H-14  
B-6 B-8 B-10 B-12 B-14
- Ratio Range: 1.25 - 450
- Output Torque: 200 - 18000 N·m
- Input Type: Motor-mounted flange connection  
Shaft input
- Output Type: Solid shaft with key  
Hollow shaft with key  
Shrink disc connection
- Mounting Type: Horizontal mounting  
Vertical mounting  
Swing base mounting  
Torque arm mounting

## ■ T Series Spiral Bevel Gearboxes

### Product Description

The T Series Spiral Bevel Gearboxes feature a standardized design with multiple shaft configurations, including single and double input/output arrangements in both horizontal and vertical layouts. Equipped with precision spiral bevel gears, they provide smooth bidirectional power transmission, low noise, low vibration, and high load-carrying capacity.



### Key Features

- Spiral bevel gear transmission
- Modular design
- Multiple shaft configurations
- Bidirectional operation
- High load capacity

### Technical Data

- Model: T-2 T-4 T-6 T-8 T-10 T-16 T-20 T-25
- Ratio Range: 1:1 1.5:1 2:1 2.5:1 3:1 4:1 5:1
- Output Torque: 200 - 18000 N·m
- Transmission Efficiency: Avg. 98%

## ■ G Series Fully Enclosed Gear Motor

### Product Description

The G Series Fully Enclosed Gear Motor features a compact, lightweight design for easy installation and efficient operation. Hardened helical gears ensure high transmission efficiency, smooth performance, and low noise levels. Suitable for a wide range of industrial applications, with optional electromagnetic vibrators available for specialized operating requirements.



### Key Features

- Fully enclosed design
- Compact and lightweight
- Hardened helical gears
- High efficiency
- Low noise operation

### Technical Data

- |                    |                                    |
|--------------------|------------------------------------|
| • Model            | 18 - 50                            |
| • Power Range      | 0.12 - 30 kW                       |
| • Output Torque    | 3.4 - 1320 N·m                     |
| • Housing material | Aluminum alloy (L) / Cast iron (H) |

## ■ MB Series Planetary Friction Variator

### Product Description

The MB Series Planetary Friction Variator provides smooth and continuous stepless speed control through a planetary friction drive mechanism. Precision-machined and heat-treated transmission components ensure stable operation, low noise, and long service life. The variator can be combined with various gear reducers to achieve low-speed, high-torque output. Its sealed construction is suitable for dusty, humid, and mildly corrosive environments.



### Key Features

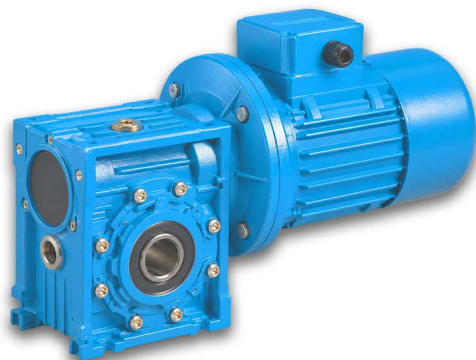
- Stepless speed control
- Planetary friction drive system
- Low-speed high-torque output
- Fully sealed construction
- Smooth operation
- Low noise operation

### Technical Data

- |                |                |
|----------------|----------------|
| • Model:       | 02 04 05 07 40 |
|                | 75 150 220     |
| • Power Range: | 0.18 - 22 kW   |
| • Ratio Range: | 7.25-45        |

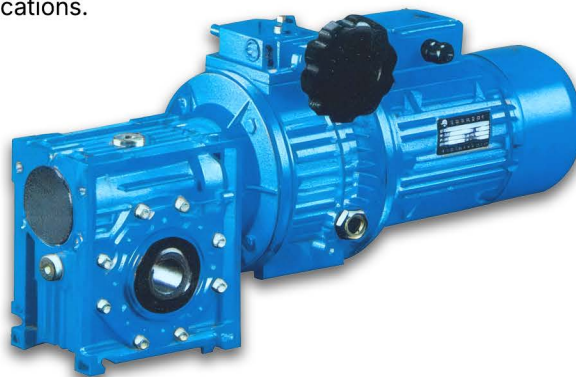


## ■ RV Series Worm Gear Reducer



### Product Description

The RV Series Worm Gear Reducer features a lightweight aluminum alloy housing with excellent heat dissipation and flexible mounting options. Precision-machined worm gearing ensures smooth operation, low noise, and high torque output. Its compact and durable design makes it suitable for continuous-duty operation across a wide range of industrial applications.



### Key Features

- Worm gear transmission
- Lightweight aluminum alloy housing
- Compact design
- High torque output
- Flexible mounting options

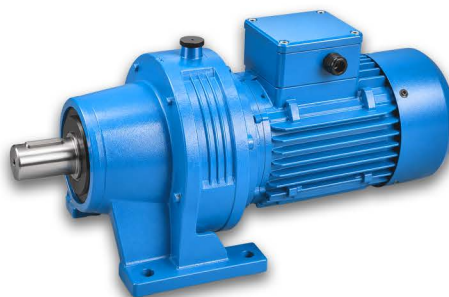
### Technical Data

- |                  |                 |                      |
|------------------|-----------------|----------------------|
| • Model:         | aluminum alloy: | 25 30 40 50 63 75 90 |
|                  | cast iron:      | 110 130 150          |
| • Power Range:   |                 | 0.06 - 15 kW         |
| • Ratio Range:   | single-stage:   | 5 - 100              |
|                  | double-stage:   | 5 - 3200             |
| • Output Torque: |                 | 68.7- 16886.7 N·m    |

## ■ WB Series Mini Cycloidal Gear Reducer

### Product Description

The WB Series Mini Cycloidal Gear Reducer features a high-pressure die-cast aluminum housing, offering a compact, lightweight design with reduced installation space requirements. Enhanced manufacturing processes and precision machining ensure reliable performance and smooth operation. Grease lubrication minimizes the risk of oil leakage, while flexible mounting options allow installation in multiple orientations.



### Key Features

- Cycloidal drive transmission
- Compact structure
- High reduction ratio
- Low noise operation
- Flexible mounting options

### Technical Data

- |                 |              |                                           |
|-----------------|--------------|-------------------------------------------|
| • single-stage: | Model:       | WB65 WB85 WB100 WB120 WB150               |
|                 | Ratio Range: | 9 11 17 23 29 35 43 47 59 71              |
| • double-stage: | Model:       | WBE1065 WBE1285 WBE1510                   |
|                 | Ratio Range: | 121 187 289 385 473 595 731 989 1225 1849 |



## ■ ZDY / ZLY / ZSY / ZFY Series Helical Gear Reducers

### Product Description

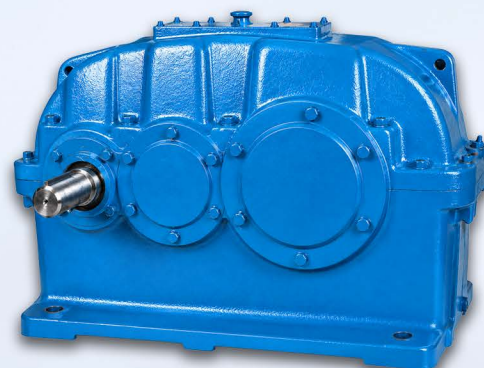
The ZDY, ZLY, ZSY, and ZFY Series Helical Gear Reducers feature optimized gear geometry and hardened gear transmission for high load capacity, efficient power transmission, and reliable operation. Manufactured from high-quality alloy steel with precision grinding and heat treatment processes, these reducers provide excellent durability and long service life for demanding industrial applications.

### Key Features

- Hardened helical gears
- High load capacity
- High efficiency
- Ground alloy steel gears
- Heavy-duty design

### Technical Data

|          |               |                         |
|----------|---------------|-------------------------|
| • MODEL: | ZDY 80 - 560  | Ratio Range: 1.25 - 5.6 |
|          | ZLY 112 - 710 | Ratio Range: 6.3 - 20   |
|          | ZSY 160 - 710 | Ratio Range: 22.4 - 100 |
|          | ZFY 180 - 800 | Ratio Range: 100 - 500  |



## ■ DCY / DBY Series Bevel-Helical Gear Reducers

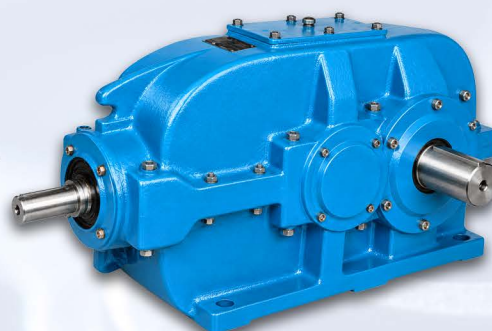
The DCY and DBY Series Bevel-Helical Gear Reducers combine bevel and helical gear transmission to provide efficient right-angle power transmission. Their robust design ensures smooth operation, high load capacity, and reliable performance in heavy-duty applications.

### Key Features

- Bevel-helical gear design
- Right-angle drive
- High torque capacity
- High load capacity
- Heavy-duty design

### Technical Data

|          |               |                      |
|----------|---------------|----------------------|
| • MODEL: | DBY 160 - 560 | Ratio Range: 8 - 14  |
|          | DCY 160 - 800 | Ratio Range: 16 - 90 |



## ■ NGW Series Planetary Gear Reducers

The NGW Series Planetary Gear Reducers feature an involute planetary gear design, providing compact construction, high torque density, and excellent transmission efficiency. With efficiencies of up to 97% for single-stage, 94% for two-stage, and 91% for three-stage configurations, they are ideal for high-performance industrial drive applications.

### Key Features

- Planetary gear transmission
- Compact design
- High torque capacity
- High efficiency (up to 97%)
- Heavy-duty operation
- Long service life

### Technical Data

|          |               |             |                         |
|----------|---------------|-------------|-------------------------|
| • MODEL: | single-stage: | NGW11 - 121 | Ratio Range: 2.8 - 12.5 |
|          | double-stage: | NGW42 - 122 | Ratio Range: 14 - 160   |
|          | three-stage:  | NGW73 - 123 | Ratio Range: 180 - 2000 |



## ■ TDY Series Motorized Drum

### Product Description

The TDY Series Motorized Drum integrates a three-phase asynchronous motor and transmission system within the drum body, providing a compact and efficient drive solution for conveyor systems. Designed for bulk materials as well as packaged goods, it simplifies system layout, reduces installation space, and lowers overall conveyor costs. Multiple units can be combined for long-distance conveying and automated material handling applications.

### Key Features

- Integrated motorized drum design
- Compact construction
- Enclosed drive system
- Suitable for bulk material conveying
- Suitable for long-distance conveying
- Low maintenance design

### Technical Data

- Model: 132-630 (drum diameter mm)
- Power Range: 0.25 - 18.5 kw
- drum speed 25 - 130 (r/min)
- drum length 300 - 1600 mm



## ■ YCJ Series Gear Motor

### Product Description

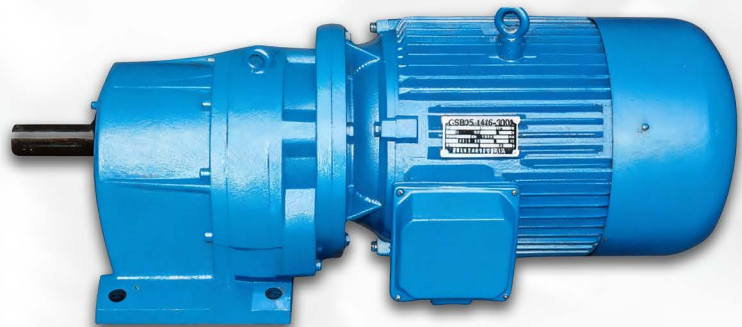
The YCJ Series Gear Motor combines a gear reducer and electric motor in a compact integrated design, delivering low-speed, high-torque output for a wide range of industrial drive applications. Designed for reliable and continuous operation, it provides an efficient solution for material handling, processing, and power transmission systems across various industries.

### Key Features

- Integrated gear motor design
- Low-speed high-torque output
- Compact construction
- Efficient power transmission
- Low maintenance design
- Continuous-duty operation

### Technical Data

- Model: 71 - 355
- Power Range: 0.55 - 55 kw
- Torque: 6.5 - 615 N·m



## ■ SWL Series Worm Gear Screw Jack

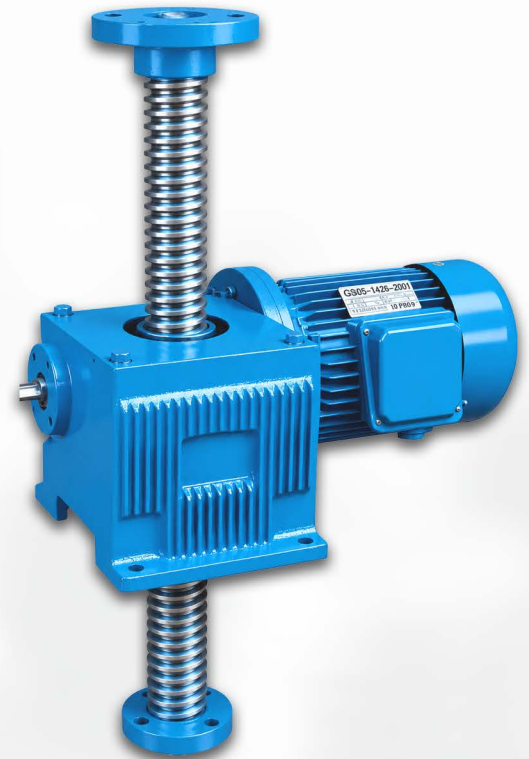
### Product Description

The SWL Series Worm Gear Screw Jack provides reliable lifting, positioning, pushing, and tilting functions for a wide range of industrial applications. Featuring a compact design and flexible mounting options, it can be operated individually or in synchronized multi-unit systems for precise linear motion control. Available with manual or motorized drive, with customizable lifting travel to suit specific application requirements.

### Key Features

- Worm gear screw jack
- Precise linear motion
- Lifting and positioning
- Manual or motorized drive
- Customizable travel

### Technical Data



### SWL Series Screw Jack – Technical Data

| Model                                                                | SWL2.5                                                          | SWL5     | SWL10     | SWL15     | SWL20     | SWL25     | SWL35      |
|----------------------------------------------------------------------|-----------------------------------------------------------------|----------|-----------|-----------|-----------|-----------|------------|
| Max. Lifting Capacity (kN)                                           | 25                                                              | 50       | 100       | 150       | 200       | 250       | 350        |
| Screw Thread Size                                                    | Tr30 × 6                                                        | Tr40 × 7 | Tr58 × 12 | Tr65 × 12 | Tr65 × 12 | Tr90 × 16 | Tr100 × 20 |
| Max. Pulling Force (kN)                                              | 25                                                              | 50       | 99        | 166       | 166       | 250       | 350        |
| Worm Gear Ratio – P Type                                             | 1/6                                                             | 1/8      | 3/23      | 1/8       | 1/8       | 3/32      | 3/32       |
| Worm Gear Ratio – M Type                                             | 1/24                                                            | 1/24     | 1/24      | 1/24      | 1/24      | 1/32      | 1/32       |
| Screw Travel per Worm Revolution – P Type (mm)                       | 1.0                                                             | 0.875    | 1.565     | 1.56      | 1.56      | 1.5       | 1.875      |
| Screw Travel per Worm Revolution – M Type (mm)                       | 0.250                                                           | 0.292    | 0.5       | 0.5       | 0.5       | 0.5       | 0.625      |
| Max. Screw Extension under Tensile Load (mm)                         | 1500                                                            | 2000     | 2500      | 3000      | 3000      | 3500      | 4000       |
| Max. Lifting Height under Compressive Load – Screw End Unguided (mm) | 250                                                             | 385      | 500       | 400       | 490       | 850       | 820        |
| Max. Lifting Height under Compressive Load – Screw End Guided (mm)   | 400                                                             | 770      | 1000      | 800       | 980       | 1700      | 1640       |
| Input Torque at Full Load – P Type (N·m)                             | 18                                                              | 39.5     | 119       | 179       | 240       | 366       | 464        |
| Input Torque at Full Load – M Type (N·m)                             | 8.86                                                            | 19.8     | 60        | 90        | 122       | 217       | 253        |
| Efficiency – P Type (%)                                              | 22                                                              | 23       | 20.5      | 19.5      | 19.5      | 16        | 18         |
| Efficiency – M Type (%)                                              | 11                                                              | 11.5     | 13        | 12.8      | 12.8      | 9         | 11         |
| Power Calculation                                                    | $P = T \times n / 9550$                                         |          |           |           |           |           |            |
| Weight without Stroke (kg)                                           | 7.3                                                             | 16.2     | 25        | 36        | 36        | 70.5      | 87         |
| Screw Weight per 100 mm Stroke (kg)                                  | 0.45                                                            | 0.82     | 1.67      | 2.15      | 2.15      | 4.15      | 5.20       |
| Lubricant                                                            | Synthetic calcium-based grease ZGN-1 or ZGN-2 (–20°C to +100°C) |          |           |           |           |           |            |
| Lubricant Quantity (kg)                                              | 0.1                                                             | 0.3      | 0.5       | 0.75      | 0.75      | 1.1       | 1.9        |

Note: T = torque (N·m); n = speed (r/min).

## ■ X/B Series Cycloidal Gear Reducers

### Product Description

The X/B Series Cycloidal Gear Reducers utilize advanced cycloidal drive technology to provide high reduction ratios, compact dimensions, and efficient power transmission. Available in horizontal, vertical, and direct-mounted configurations, they offer single-stage and multi-stage reduction options to meet various speed and torque requirements. Their robust construction ensures smooth operation and reliable performance in demanding industrial

### Key Features

- Cycloidal drive technology
- High reduction ratios
- Compact design
- High efficiency
- Continuous-duty operation

### Technical Data

- Model: B series: BW BL BWY BWD BLD  
X series: XW XL XWD XLD XWY XLY



## ■ CW Series Cylindrical Worm Gear Reducers

### Product Description

The CW Series Cylindrical Worm Gear Reducers feature a single-stage worm gear design, delivering smooth power transmission, high load capacity, and reliable performance. Available in multiple configurations, including CWU, CWS, and CWO models, they provide flexible installation options for a wide range of industrial drive applications.

### Key Features

- Cylindrical worm gear transmission
- High load capacity
- Low noise operation
- Flexible installation options
- Multiple housing configurations
- Continuous-duty operation

### Technical Data

| Ratio             | 1 | 2   | 3 | 4  | 5    | 6  | 7  | 8  | 9    | 10 | 11 | 12 |
|-------------------|---|-----|---|----|------|----|----|----|------|----|----|----|
| Nominal Ratio (i) | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 20 | 15 | 31.5 | 40 | 50 | 63 |



## ■ P Series Planetary Gearboxes

### Product Description

The P Series Planetary Gearboxes feature a modular design that provides flexible configuration options for a wide range of industrial applications. A robust ductile iron housing ensures high rigidity and shock resistance, while precision-ground, carburized, and hardened gears deliver high torque capacity, low noise operation, and extended service life.

### Key Features

- Planetary gear transmission
- Modular design
- High torque capacity
- Ductile iron housing
- Heavy-duty operation

### Technical Data

- Model: 9-34
- Reduction Stages: 2-stage, 3-stage
- Ratio Range: 25-4000 (Higher ratios available when combined with CZR, CZK and other series)
- Input Type: Coaxial shaft input / Helical gear input / Bevel-helical gear input / Bevel gear input
- Output Type: Involute splined shaft / Hollow shaft with shrink disc / External splined shaft / Solid keyed shaft
- Mounting Type: Horizontal mounting / Vertical mounting / Torque arm mounting





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# Reliable Transmission Solutions for Global Industries

Specialized in gear reducers, industrial gearboxes,  
and customized transmission solutions.

We provide reliable power transmission products  
for customers worldwide.

Customized Solutions • Since 1993 • Global Export

## CONTACT INFORMATION



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