ZIMM ®
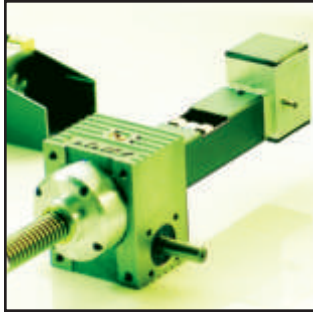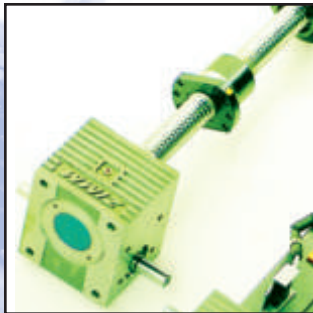
Screw Jack Systems

DIEQUA Corporation

Screwjack Lifting and Positioning Systems

Overview and Applications

www.diequa.com

ZIMM® Screw Jack Systems

Screwjack Lifting and Positioning Systems
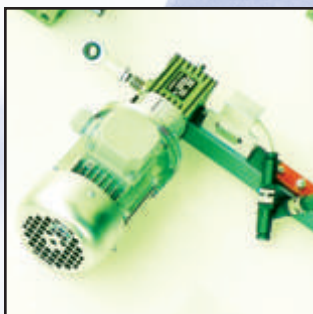
DieQua Corporation is a manufacturer and supplier of premium quality power transmission and motion control components, satisfying demanding requirements for over 20 years. Along with our manufacturing partner, Zimm Maschinenelemente GmbH, we offer one of the most extensive ranges of screw jack systems available. With Zimm's building block concept, featuring a wide variety of sizes, configurations, connection, safety, and motion control options, we have the solution to meet your unique lifting and positioning needs.

Program Benefits:

- Precision Machine and Ball Screws
- Standing and Rotating Versions
- Multiple Spindle End Connections
- Multiple Driving Nut Designs
- Modular Housing for Mounting Versatility
- Multiple Safety and Protection Options
- Motion Control Options
- Complete System Designs

Series S - Standing Version

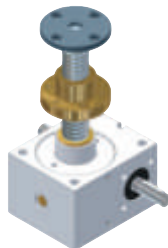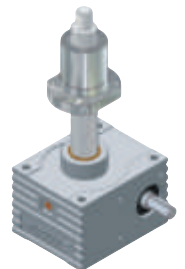| Machine Screw | Aluminum Housing | with Safety Nut | with Anti-Backlash | Ball Screw |

Series R - Rotating Version

| Machine Screw | Aluminum Housing | with Safety Nut | Ball Screw |

Series S - Standing Version

The standing version has the spindle traveling through the gearbox to provide lifting and positioning from above or below the load.

Specifications:
- Load Capacities: 1/2 ton to 75 ton
- Lift Rates: 15 to 120 inches per minute
- Product Range: 11 sizes
- Spindle Design: Machine screw or ball screw

The standing version offers a wide range of load connection options, control features, and system components to assure precise, reliable performance and maximum design versatility.
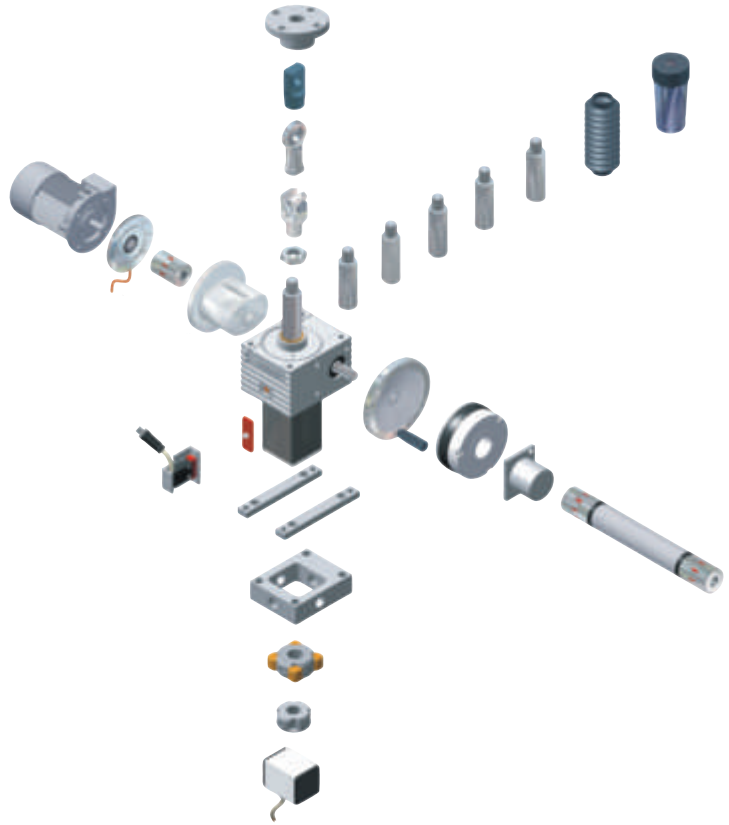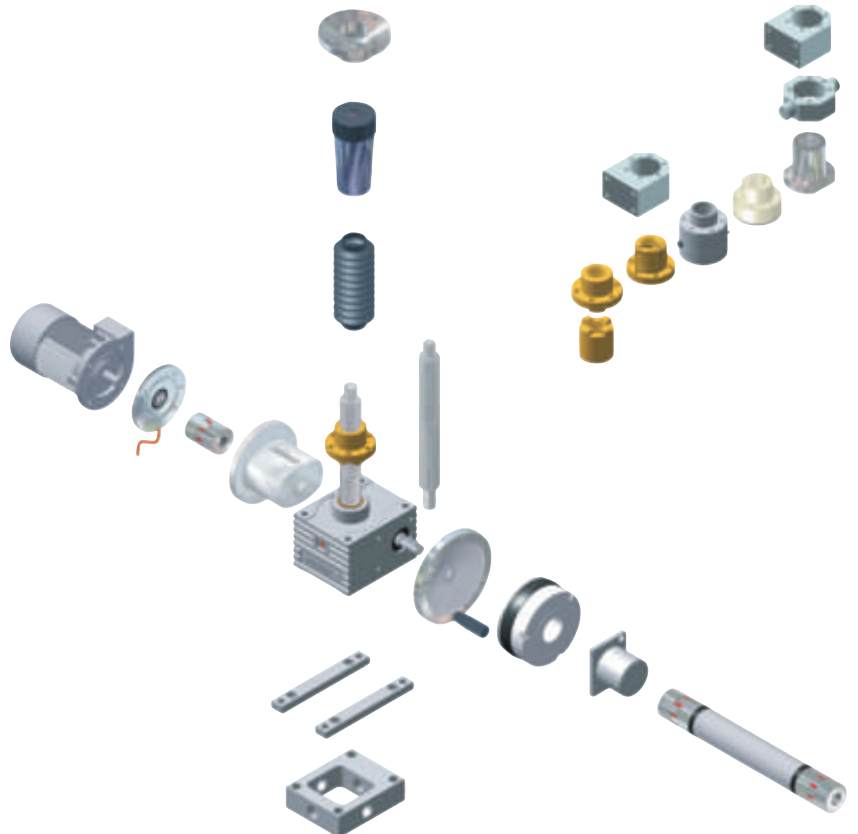
Series R - Rotating Version

The rotating version has a nut that travels up and down a rotating spindle, to provide lifting and positioning within a smaller envelope.

Specifications:
- Load Capacities: 1/2 ton to 75 ton
- Lift Rates: 15 to 120 inches per minute
- Product Range: 11 sizes
- Spindle Design: Machine screw or ball screw

The rotating version offers a variety of nut designs along with a wide range of control, safety, and drive components to satisfy demanding lifting and positioning system components.
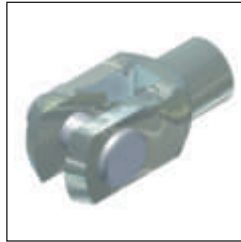
System Components - *The Building Blocks*

Load Connection Options:
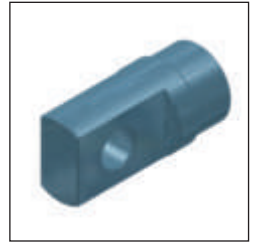
Series S - Standing Version

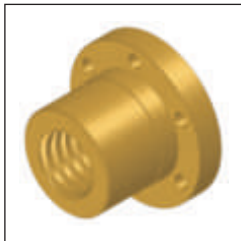|			
Fixing Flange	Forked Head	Rod End	Pivot Bearing

Series R - Rotating Version
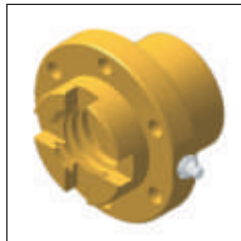
Flange Nut	Duplex Nut	Self-Aligning	Greaseless Nut

Screw Jack Connecting Options:

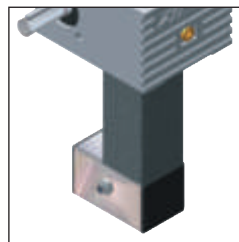|			
Lineshafts	Universal Joints	Standard Couplings	Clamp Couplings
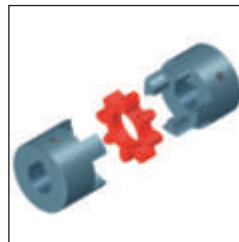
Motion Control Options:
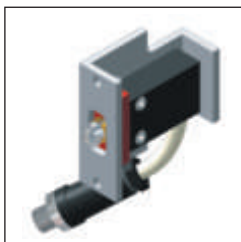
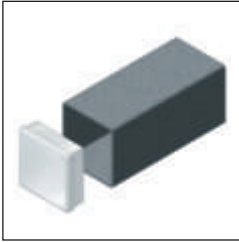|			
Limit Switches	Rotary Encoders	Linear Encoders	Brakes

Zimm's building block concept offers the widest range of system components, options, and special designs available in a screw jack program. Whether a simple jack or a complete automated lifting or positioning system is required, Zimm has the solution for your unique application.
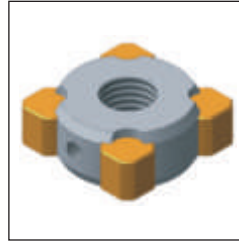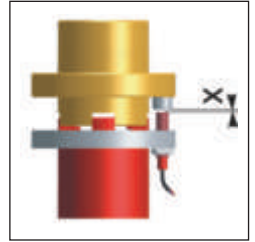
Protection Options:

Protection Tubes	Bellows	Anti-Rotation	Safety Nuts

Drive Options:

Motors	Motor Flanges	Hand Wheels	Bevel Boxes
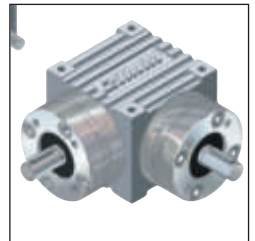
Mounting Options:
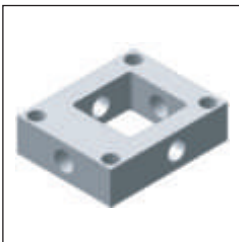
Bearing Plates	Support Tubes	Mounting Feet	Driving Flanges
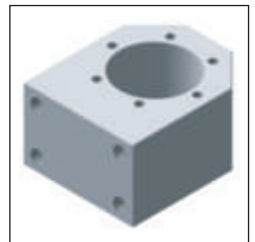
Other Available Options:
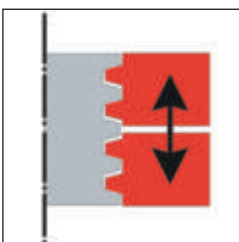
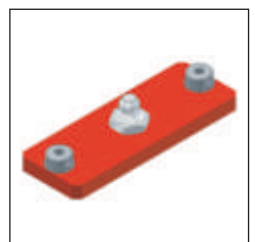|			
Anti-Backlash	Bearing Flanges	Automatic Lubricator	Lubricating Strips

Application Examples

Screw jacks and screw jack systems are incorporated into more applications and industries than perhaps any other gear drive device. Wherever lifting or positioning is necessary, Zimm has a screw jack to meet the needs of your unique design requirements.
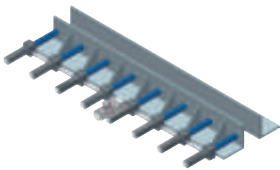
Pallet Transfer Table
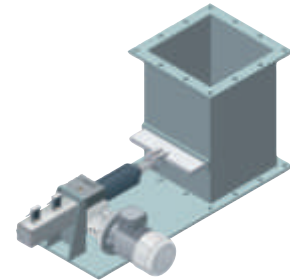
Ring Height Adjustment
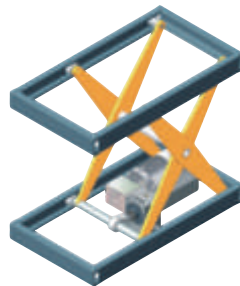
Antenna Positioning
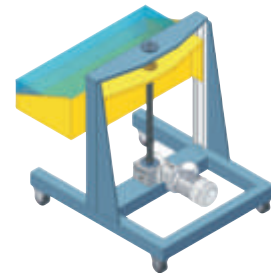
Concrete Beam Production
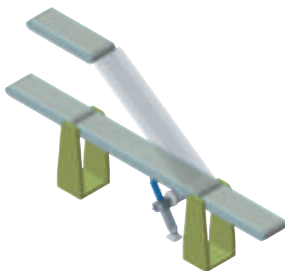
Compact Press

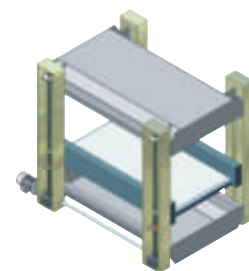Feed Slide Positioning

Bottling Systems

Scissor Table

Mobile Lifting Platform

Conveyor Adjustment

Destacking Unit

Oven Hood Adjustment

ZIMM®
Screw Jack Systems
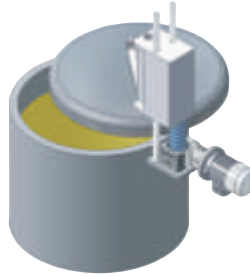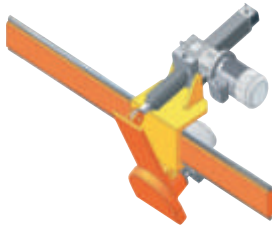
Screwjack Lifting and Positioning Systems
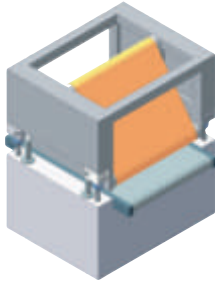
Grinder Belt Adjustment

Tank Lid Adjustment

Feeder Cart Adjustment

Saw Blade Adjustment
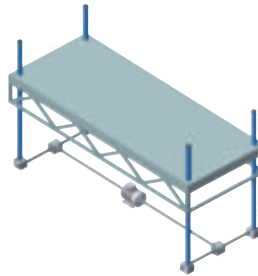
Stage Adjustment
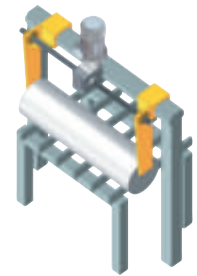
Centering Mechanism
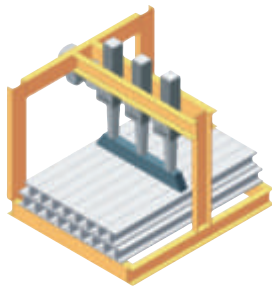
Product Alignment System

Product Gripper Mechanism
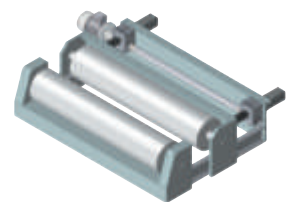
Roller Gap Adjustment

Design Assistance

DieQua offers complete system design assistance, taking the guess work out of product selection. Our years of application experience assures that all elements of the design process are considered. We also offer full assembly drawings, which provides time-saving value and guarantees that the correct system components are integrated. Contact DieQua with your next screw jack challenge!

Other Products & Services

Helical Gearmotors
and Speed Reducers

Servo Gearheads

Servo Worms

Spiral Bevel Gearboxes

Variable Speed Drives

Zero Backlash
Couplings

Torque Limiters

Engineering Support

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

Manufacturing

DieQua Corporation's manufacturing capabilities allow production of many of the components used in the drives we provide. Mounting components and design modifications are also available from our full service machine shop.
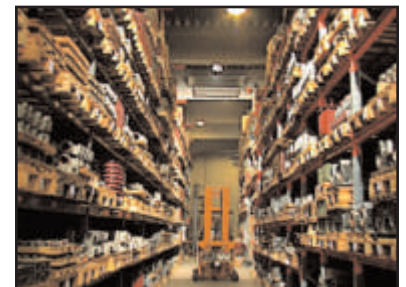
Assembly

DieQua Corporation has a team of factory trained technicians that assemble the majority of the drives we provide. This allows prompt delivery of your production requirements or service repairs.

Warehousing

DieQua Corporation maintains an extensive inventory of common speed reducer and motor components for quick delivery of small orders, prototypes, and spare parts.

Manufacturing Partners

TANDLER

watt drive
the system drive.

GIRARD TRANSMISSIONS

planetroll
the driving power

R+W
COUPLING TECHNOLOGY

ZIMM
Screw Jack Systems

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Motion Components and Engineering Services

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