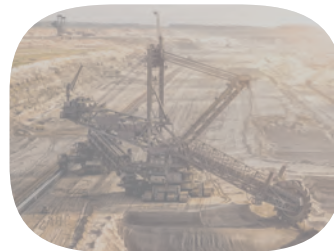


DIEQUA
Corporation



Motion Control and Power Transmission Drive Components

THE DIEQUA ADVANTAGE

Founded in 1980 by Dietmar Quaas, and now owned by his sons, DieQua Corporation has expanded from a single product line to become a leading manufacturer and supplier of an extensive line of high-quality power transmission and precision motion control products, including gearboxes, servo gearheads, screw jack systems, speed reducers, cycloidal reducers and connecting components. The company also offers custom product modifications and complete design solutions for virtually any application. DieQua Corporation serves a wide range of industries, including medical and health care, marine engineering, renewable energy, mining, transportation, steel, forestry and lumber, water and wastewater, automotive, and factory automation to name a few.

An experienced and knowledgeable technical sales, customer service and engineering support staff, as well as local distributors, ensure that DieQua customers in North America, Mexico and South America select the optimum components, systems, and best design solutions for their specific requirements.

Meikel
Quaas

Norman
Quaas



ENGINEERING SUPPORT

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

Benefits:

- Custom gearbox design and build services
- Gearbox repair
- Finite Element Analysis (FEA)
- Various paint selections

WAREHOUSING

We pride ourselves for our extensive in-stock inventory. For fast product turnaround, DieQua Corporation stocks many components of various ratios and sizes, ready to ship fast.

Benefits:

- Fast delivery
- Low maintenance
- High operational reliability

MANUFACTURING AND ASSEMBLY

DieQua Corporation now manufactures or assembles most of the products, for on time delivery of standard orders as well as prototypes. We are ISO 9001 certified and are constantly improving our quality systems to ensure our customers receive the best products.

Benefits:

- Dependability
- Safety
- Longevity of product
- ISO 9001 certified

Trust our knowledge and experience in a wide range of industries...

With more than 50 years of product engineering expertise under our belts, we know how to get you the product you need, when you need it. We aren't limited to a handful of industries, we work with companies in virtually every market. Let DieQua show you how what we know, makes your business better.



AEROSPACE AND MILITARY

- Aircraft manufacturing
- Space travel / exploration
- Defense and security



ENERGY

- Renewable energy
- Fossil fuel exploration / refining
- Power generation



ENTERTAINMENT

- Theater, platforms and stages
- Sound and lighting systems
- Monitors and scoreboards



ENVIRONMENTAL / CIVIL

- Waste management and recycling
- Freshwater and wastewater
- Flood control



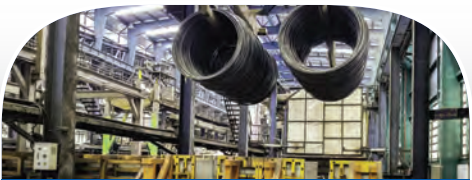
FOOD AND BEVERAGE

- Processing
- Filling / sorting
- Packaging equipment



FORESTRY

- Timber harvesting and processing
- Pulp, paper, lumber, millwork
- Furniture manufacturing



MATERIAL HANDLING

- Robotics
- Conveyors
- Overhead cranes



MEDICAL AND HEALTHCARE

- Laboratory automation and testing
- Patient mobility and handling
- Medical equipment & machinery



MINING / TUNNELING

- Mineral, metal and aggregate
- Material processing and control
- Transportation infrastructure



SEMI-CONDUCTOR

- Wafer handling
- FOUJ handling
- Wafer elevator



STEEL

- Smelting and refining
- Metal forming and fabrication
- Reclamation



TRANSPORTATION

- Auto / truck assembly and testing
- Transportation, rail and marine
- Container and cargo handling

Trust in the Engineering of our Products...



Spiral Bevel Gearboxes

Tandler Spiral Bevel Gearboxes feature the ultimate in performance and design versatility. They provide high precision for motion control and rugged construction to withstand rigorous demands.

FEATURES:

- Low backlash
- High durability
- Wide range of ratios and models
- Completely machined housings
- Custom designs available

TYPES AVAILABLE:

- Standard Design
- Hollow Output Shaft
- Reversing & Disengaging
- Reinforced Shaft
- Auxiliary Shaft Design
- High Torque Density – Power Master
- Stainless Steel



Servo Gearheads

We offer the widest range of servo gearhead solutions in the industry, meeting and exceeding the needs of your motion application demands.

FEATURES:

- Wide levels of backlash
- Inline, right-angle, and custom configurations
- Planetary, spiral bevel, hypoid, helical gearing
- Solid shaft, hollow bore, robot flange outputs
- Multiple levels of gearing precision
- Noise levels as low as 56 dB(A)
- NEMA and metric dimensions

TYPES AVAILABLE:

- Premium Planetary
- Precision Planetary
- Economy Planetary
- Spiral bevel
- Hypoid
- Housing options: Nickel, stainless steel and powder coat
- Output options: Solid shaft, robot flange and hollow bore



Helical Speed Reducers

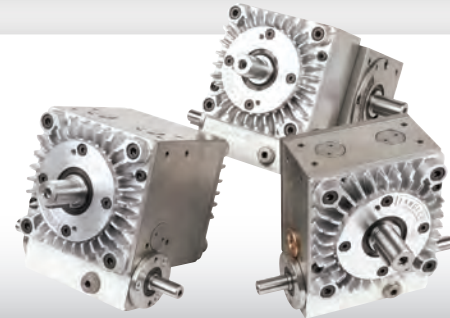
These units provide torque multiplication and speed reduction for industrial machinery. Available as integral gear motors or gear-units with adapters that can be driven by locally supplied NEMA or IEC motors. Available with a unique servo input adapter for the most challenging factory automation applications.

FEATURES:

- Class 12 helical and spiral bevel gears for higher efficiencies and greater torque in smaller sizes.
- Multiple input & output options
- UNIBLOCK housing
- Worldwide motor
- Sealed for washdown

TYPES AVAILABLE:

- Helical bevel
- Helical worm
- Inline helical
- Parallel shaft
- Shaft mounted
- Input shaft
- Agitator drives
- Aluminum inline
- Standard industrial worm



Speed Modulating Gearboxes

Tandler inline and right-angle shaft phasing gearboxes are especially designed for applications requiring timing, positioning, registration or narrow-range speed control. Incremental output shaft angular phase changes and continuous 360° correction are possible.

FEATURES:

- High precision low backlash
- Low transmission error
- Quiet operation
- 360 degree correction
- Machined housing allow mounting on six surfaces
- Machined flanges for accurate shaft centering

TYPES AVAILABLE:

- Right angle
- Double planetary inline
- Single stage planetary inline
- Inline bevel differential



Cycloidal Reducers & Positioners

High precision cycloidal reducers are designed for applications that demand true Zero backlash, high kinematic accuracy, ultra low lost motion, high bending moment, radial, axial and torsional stiffness with lowest inertial mass possible.

FEATURES:

- ISO 9409 robotic output flanges
- Wide range housing styles
- Cross roller bearing structure
- Widest range of precision miniature cycloidals
- Custom designs available

TYPES AVAILABLE:

- Cycloidal Reducer G Series
- Cycloidal Reducer T Series
- Cycloidal Reducer E Series
- Cycloidal Reducer H Series
- Cycloidal Reducer M Series
- Cycloidal Rotary Actuator DS series



Screw Jack Systems

Screw jack systems are designed to move and position loads accurately and efficiently for applications requiring lifting, pushing, pulling, pressing, holding or pivoting.

FEATURES:

- Separate gearbox and spindle lubrication systems
- Robust gearbox design allows full capacity mounting in any position
- Advanced hardened worm shaft, and ring gear manufacturing
- Servo motor and synthetic oil capability
- Integrated pivot points

TYPES AVAILABLE:

- ZE Series
- Z Series
- GSZ Series
- Trapezoidal spindle
- Ball screw spindle
- Translating version
- Rotating version



Zero Backlash Couplings and Line Shafts

Zero backlash shaft to shaft couplings and overload protection components for high speed and high precision motion applications.

FEATURES:

- Zero backlash
- High torsional rigidity
- Low inertia
- Compensates for misalignment
- Maintenance free
- Non-standard applications
- Four disengagement designs

TYPES AVAILABLE:

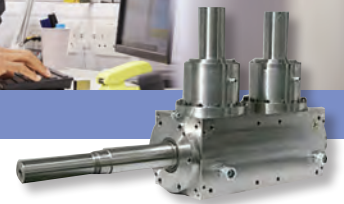
- Metal bellows couplings
- Elastomer insert couplings
- Safety couplings
- Line shaft



Custom Design

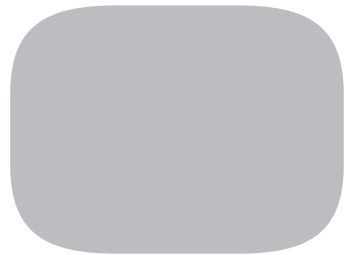
When "standard" just doesn't cut it, DieQua Corporation offers special design gearboxes.

With our enormous variety of standard components and custom machining capabilities, a specially designed and manufactured gearbox for specific application is something we do all the time.



Types Available:

- Special environment conditions
- Washdown applications
- Dimension modifications
- Special shaft designs
- Special materials
- Unique mounting requirements
- Multiple shaft outputs
- Custom painting
- Plating options
- Special ratios
- Special lubrication



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