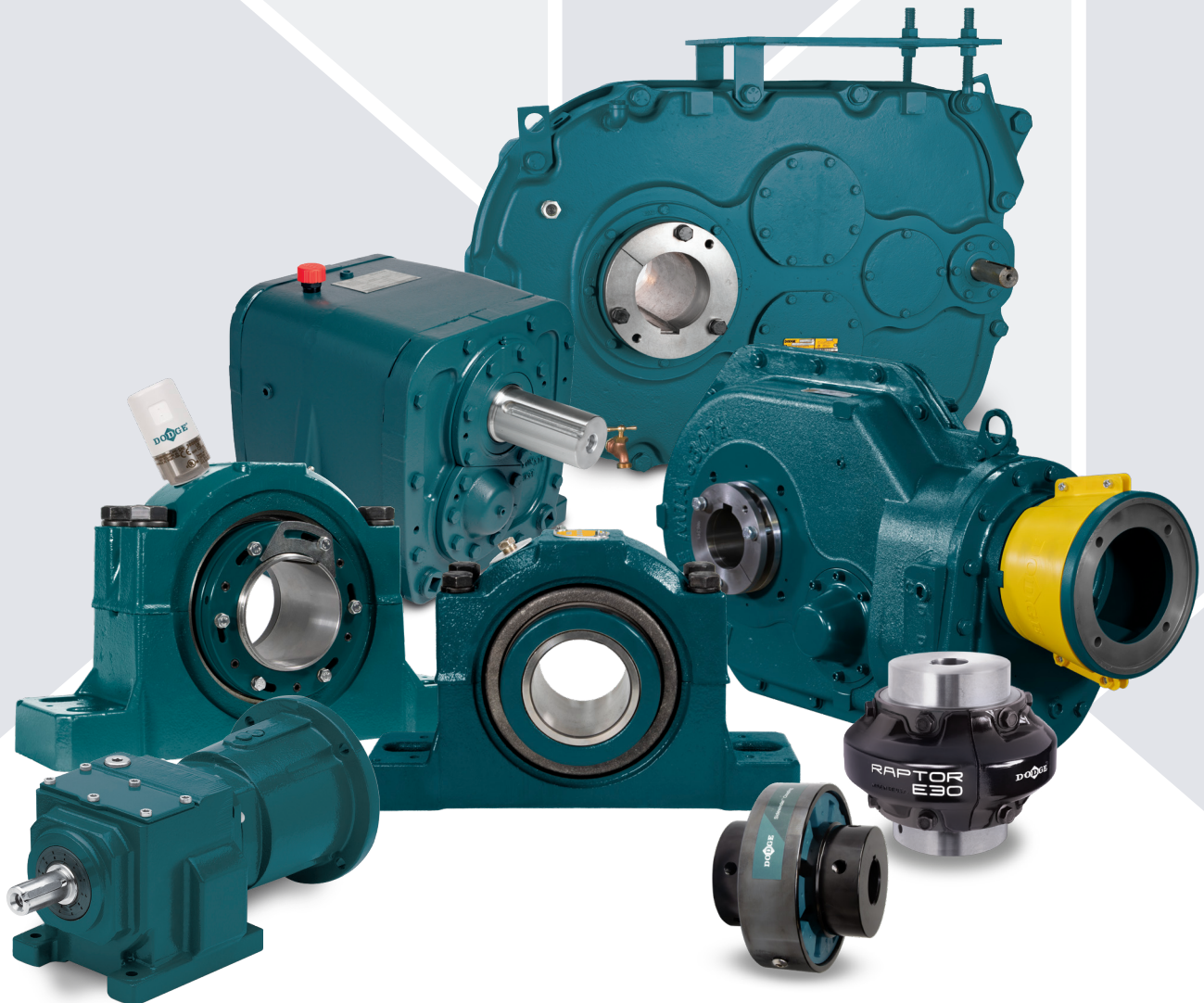


INDUSTRY

Water and Wastewater

Specialized problem-solving solutions to keep operations flowing



Your trusted partner

The Dodge® legacy of innovation, safety, and quality has been unmatched in the industry since 1878. From inventing the concept of shaft mounting a gear reducer to over a century of spearheading mounted bearing innovation, our mechanical power transmission products have been meticulously engineered to thrive in the harshest, most demanding water and wastewater applications.

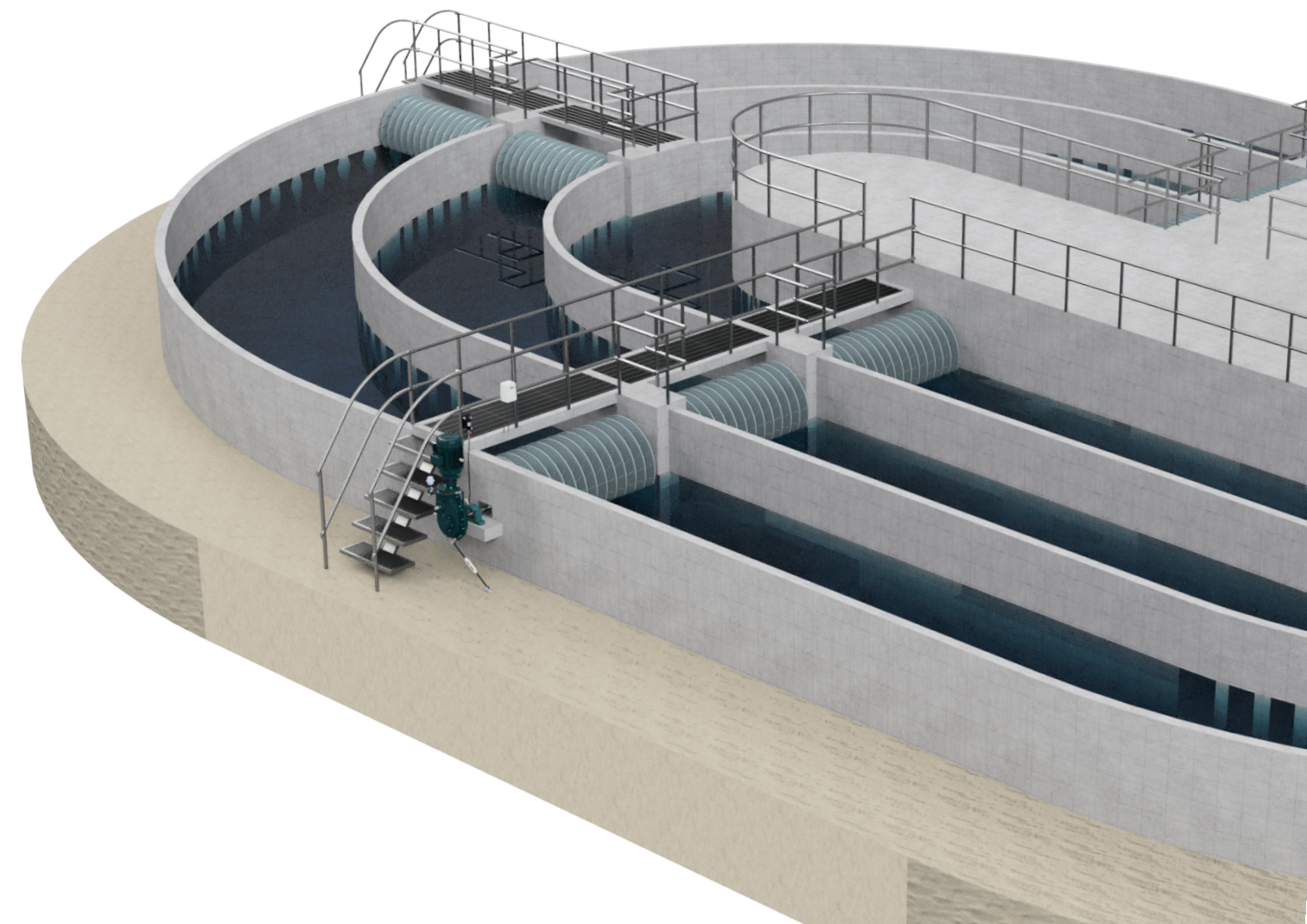
Aging infrastructure, stringent regulations, and ongoing unpredictability continue to challenge water treatment plants and wastewater facilities across the United States. At Dodge, we understand the critical nature of delivering a continuous, clean water supply to residential, commercial, and industrial facilities across the country—as well as the stringent requirements for safe removal and treatment of wastewater before its release back into the environment. With decades of proven performance, Dodge solutions are tailored to withstand harsh environments with key features designed to prevent contamination, operate reliably, and outlast the competition.



Superior solutions that keep your operation flowing

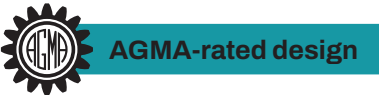
Water and wastewater treatment facilities present unique challenges for mechanical equipment—requiring around-the-clock operation in heavily contaminated and highly corrosive conditions. From preliminary filtering for removal of large debris and grit to biological treatment for removal of organic matter and final disinfection, each stage of the water treatment process is critical to smooth operation and a continuous supply of treated water for reuse.

Our comprehensive portfolio of mounted bearings, gearing, and power transmission components supports critical applications throughout the treatment process—from influent pumping and screening to aeration systems and sludge handling. With over 145 years of experience, Dodge delivers reliable, long-lasting solutions that maximize uptime, reduce maintenance costs, and enhance safety to meet the growing demands of both municipal and industrial water treatment operations.



Gearing solutions

From aeration tanks and sludge pumps to bar screens and filter presses, a reliable and efficient drive system is critical to ensuring continuous operation of your essential public services. Our expansive offering of harsh-duty reducers excels in the moisture-heavy, chemically aggressive environments typical of treatment facilities—with specialized solutions for rotating biological contactors, screw pumps, mixers, and screening equipment. Engineered with corrosion-resistant materials and advanced sealing technology, our field-proven gearing solutions deliver the uncompromising performance and longevity municipalities demand for their critical infrastructure investments.



Motorized Torque-Arm (MTA)

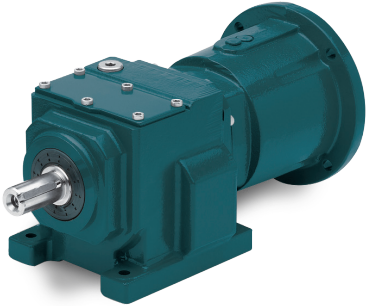
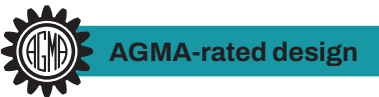
Built for industry-leading performance in a compact design, MTA is a right-angle, direct-drive reducer offering the highest torque ratings per case size for reduced power consumption to optimize system efficiency. The shaft-mounted reducer is easy to install, and its heavy-duty construction delivers reliability for less maintenance—maximizing uptime and lowering your total cost of ownership.

- Sizes support drive packages up to 200 hp (150 kW)
- Multiple input adapter options to fit both flanged and foot-mounted motors
- Severe-duty backstop designed to operate with extreme pressure (EP) lubricant to minimize internal component wear
- Patented Hydrogenated Nitrile Butadiene Rubber (HNBR) sealing system with metal shield and excluder lip for extended wear in extreme environments with high contamination levels
- Patented twin-tapered bushings allow for easy mounting and dismounting

BioDisc

Based on TXT®, the original Torque-Arm belt-driven reducer, BioDisc has been the most reliable, heavy-duty solution for the wastewater industry for more than 35 years. With a design specifically engineered for the wastewater industry and durable features such as harsh-duty seals and corrosion-resistant paint, bushings, and tie rods, BioDisc offers unmatched performance and superior durability.

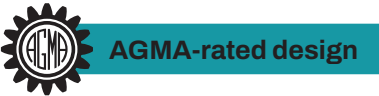
- Capable of either 5-horsepower (Class II) or 7.5-horsepower (Class I) operation with 1.5 rpm output speed for rotating biological contactor (RBC) applications using 1,150 rpm motors
- Predesigned drive packages eliminate the need for ordering individual sheaves, bushings, and belts
- Hydra-Lock breather system keeps moisture and contamination out
- Harsh-duty paint and seals are ideal for use in wastewater environments
- Patented twin-tapered bushings, available with thin dense-nickel composite (TDNC) coating for maximum corrosion-resistance, allow for easy mounting and dismounting



Quantis®

The versatile and efficient gearing solution is designed for reliability, from its durable case-hardened helical gearing to its industry-leading sealing system, to maximize uptime.

- Sizes support drive packages up to 75 hp (55 kW)
- Multiple arrangements to maximize application versatility: right-angle helical-bevel (RHB), in-line helical (ILH), and motorized shaft-mount (MSM)
- Available in eight case sizes, a wide range of ratio, and with integrated or flange-mounted motors to meet your exact application requirements
- Dimensionally interchangeable with NORD, SEW-EURODRIVE, and other manufacturers' designs
- Patented twin-tapered bushings are available, allowing for easy mounting and dismounting



Maxum® XTR

A power-dense concentric reducer that delivers high torque ratings and best-in-class reliability. Its harsh-duty features provide you with a solution that excels in the most demanding conditions and outlasts the competition for maximum operation uptime.

- Sizes support drive packages up to 1,165 hp (870 kW)
- Multiple mounting configurations maximize application versatility: top motor mount, scoop mount, slide base, and custom base plate
- Heavy-duty backstop provides reliable holding power and is easy to maintain—maximizing on-site safety and minimizing downtime
- High-precision, carburized and ground gearing design optimizes contact to reduce stress and maximize efficiency
- Tandem sealing system with HNBR oil seal and auxiliary seal with purgeable grease cavity provides premier protection and minimize shaft wear in high-heat and high-contaminate environments

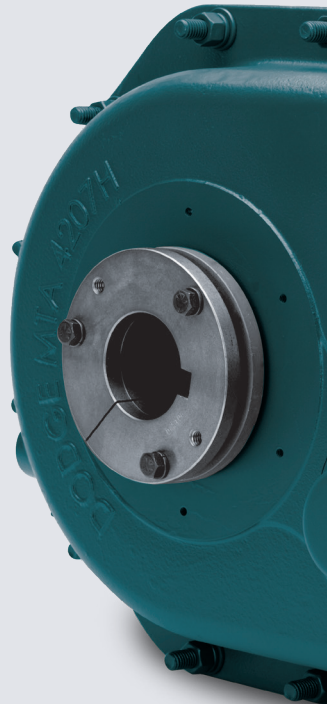
Twin-tapered bushing system

Available and trusted for over 50 years in our gearboxes, our patented twin-tapered bushing system is designed with two fully split, eight-degree taper bushings. It offers easy installation and guaranteed gearbox removal without requiring cutting the reducer off the shaft—saving the reducer and shaft, improving reliability, and maximizing uptime.

- Simplifies installation and removal
- Mitigates shaft-to-reducer fretting
- Eliminates eccentricity and wobble
- Available in standard and short-shaft versions
- Offered in inch and metric bores
- Lowers total cost of ownership



Don't end up like this!
See how easy it is to remove a gearbox with twin-tapered bushings.



Mounted bearings

Our full portfolio of mounted bearings is the largest and most innovative in the industry with patented designs for enhanced performance, improved safety, and maximum reliability—offering you solutions that can withstand the harshest environments and combat common application challenges, from constant moisture to extreme temperatures and chemical exposure, with the lowest total cost of ownership.

With our world-class manufacturing in the USA, our mounted bearings are unequaled in quality, availability, and features—making Dodge the trusted choice for operations for more than a century.

Ball



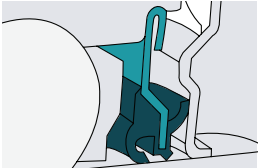
Ultra Kleen®

Our Ultra Kleen mounted ball bearings are engineered for enhanced lubrication protection for superior performance in challenging wet and corrosive environments, taking your application reliability to the next level. The bearings are available with polymer or stainless-steel housing options, feature a stainless-steel insert with a high load-carrying capacity, and include our patented Maxlife cage to prevent grease washout for extended product life.

Attachment method
Set screw

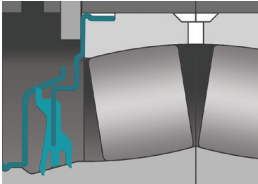
Bore sizes
3/4 in—2 in
(20 mm—50 mm)

Standard seal
Hydro Armor



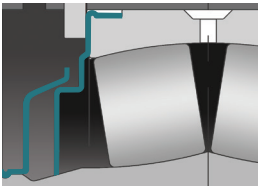
Hydro Armor seal

Ideal for humid and wet environments, the triple-lip seal protects the internal rotating elements from water ingress and is mechanically retained to prevent seal blowout.



Trident seal

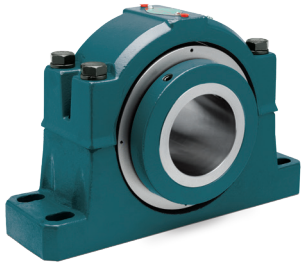
Triple-lip rubbing seal with sealant that maintains full contact even when misaligned, being extremely effective in dirty, low- to medium-speed applications.



Labyrinth seal (optional)

With corrosion-resistant flingers and steel clearance seals, the seal is ideal for high-speed and high-temperature applications.

Tapered roller



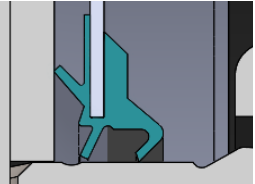
TAF

Engineered to be a drop-in replacement for SAF pillow block mounted bearings with the extra strength needed for high radial- and thrust-load applications, TAF can be quickly installed while requiring up to 75 percent less grease to be a powerful, efficient option for a wide range of wastewater equipment.

Attachment method
Set screw

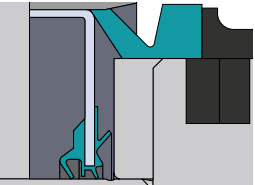
Bore sizes
1-7/16 in—7 in
(35 mm—180 mm)

Standard seal
XTS



XTS seal

Mechanically retained, triple-lip seal maximizes protection from contamination and optimizes grease retention in demanding environments.



ArmorTect seal

A premium sealing system available only on the Harsh Duty series of Type E and TAF, featuring four points of seal contact and two trash guards for maximum protection against contamination.

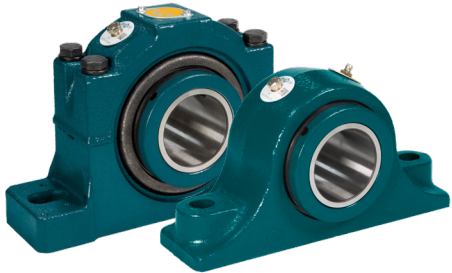
Harsh Duty™

The Harsh Duty series takes reliability to the next level by offering Type E and TAF with upgraded features, like the premier ArmorTect sealing system, for maximum protection in the harshest environments. Ideal for applications with heavy contamination, such as wastewater, the Harsh Duty series is the premier solution to keep your equipment moving no matter what your operations throw at it.

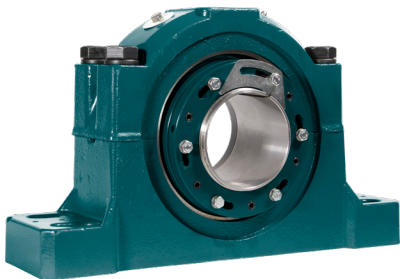
Attachment method
Set screw

Bore sizes
1-3/16 in—7 in
(35 mm—180 mm)

Standard seal
ArmorTect



Spherical roller



Safety Mount®

Known for its innovative design and patent-pending lock plate technology, Safety Mount features a patented push-pull adapter mounting system for easy installation and removal without the use of feeler gauges or risk of shaft damage. Dimensionally interchangeable with SAF-style bearings and shaft-ready out of the box, Safety Mount bearings offer easy installation and removal with mechanically retained sealing for maximum performance in challenging water and wastewater applications.

Attachment method
Tapered adapter

Bore sizes
1-7/16 in—10-1/2 in
(35 mm—260 mm)

Standard seal
Trident™



Power transmission components

Couplings, mechanical drives, and other power transmission components are vital to keeping water flowing to its next destination in your operations.

Engineered for premier performance, the expansive line of components offers the strength and endurance needed to keep your operation running smoothly with maximum uptime.



Raptor split-tire coupling

- Split-tire design for easy maintenance and interchangeability with competitive couplings
- Patented WingLock design maximizes fatigue resistance for up to 6.7 times longer life than polyurethane tire couplings
- Industry-leading combined angular and parallel misalignment capabilities
- Natural-rubber element dampens vibration for enhanced driven equipment reliability
- 5-year limited warranty, even when used with other manufacturers' components



Sidewinder™ wrap coupling

- Patent-pending CoreStrike™ technology delivers a precise balance of strength and flexibility to maintain performance—resisting degradation to extend service life, on average, 2.5 times longer than the nearest competitor
- E-coated hubs and cover provide enhanced corrosion-resistance
- 65-degree set screw angle maximizes holding power for enhanced shaft retention
- Drop-in replacement for Falk® Wrapflex to seamlessly integrate into your existing applications without equipment modifications
- High-performance elastomer material provides superior misalignment capabilities



D-Flex sleeve coupling

- Advanced formulation delivers a 32 percent torque rating increase for performance in demanding applications
- Drop-in replacement for TB Wood's™ Sure-Flex Plus® with enhanced performance and reliability, proven through head-to-head accelerated life testing at 150 percent of torque rating and maximum angular and parallel misalignment
- Flanges meet or exceed ASTM B117 salt spray corrosion-resistance standards for long-lasting durability
- 65-degree set screw angle maximizes holding power for enhanced shaft retention
- Retrofits to existing flanges, significantly increasing expected life in existing applications by realizing an immediate 30 percent increase in service factor



Mechanical drive components

- Both classical (A, B, and C) and DV wedge (3V, 5V, and 8V) belts available
- Various offerings of synchronous drive packages led by HT500, a modified curvilinear-tooth profile
- Full line of Taper-Lock® and QD sheaves and bushings available



Engineered for savings, proven in performance



\$156,863

Rotating biological contactor

A large wastewater treatment plant in the northeastern USA experienced continual SAF-style bearing failure at their rotating biological contactors, which operate around-the-clock and expose the bearings to constant splashing and corrosive elements. The switch to Safety Mount provided an easy, drop-in replacement to the existing bearing while reducing exposure to contamination upon installation—resulting in annual savings of \$156,863 and over 16 hours of labor saved per bearing replacement. The plant soon standardized their operations on the Dodge solution.

Get the full story



\$49,464

Oxidation ditch disc aerator

A West Coast wastewater treatment facility eliminated excessive maintenance requirements by replacing an obsolete belt-driven gear reducer with an MTA gear reducer. Previously, their oxidation ditch disc aerator required weekly mechanical checks and belt inspections every six weeks, costing over \$64,000 annually in labor. The MTA direct-drive solution with patented twin-tapered bushing system delivered immediate results by streamlining maintenance and improving system efficiency. The initial installation achieved documented annual savings of \$49,464, prompting the facility to convert all three of their oxidation ditch applications to the MTA solution.

Get the full story



\$29,120

Paddle wheel aerator

A Wisconsin sewage commission facility servicing 2.8 million annual tourists eliminated recurring failures by replacing unreliable urethane couplings with our Raptor elastomeric couplings. The facility's paddle wheel aerators previously suffered from urethane bond separation, leading to costly bearing replacements. Raptor's natural rubber element with patented WingLock technology delivered five times longer service life while resisting hydrolysis in the harsh oxidation ditch environment. The drop-in replacement solution generated \$29,120 in documented 5-year savings through reduced maintenance, downtime, and materials costs.

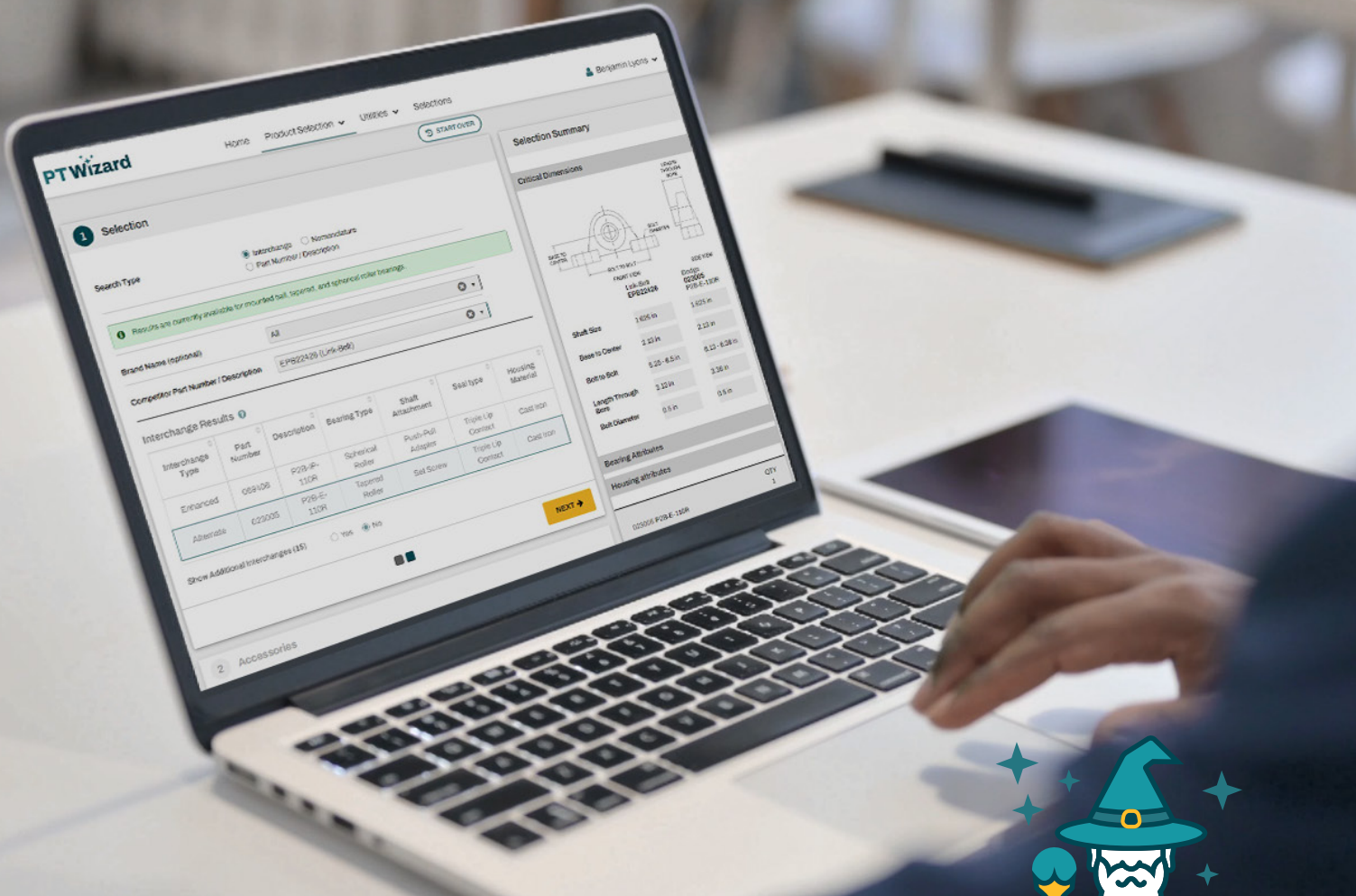
Get the full story



Save time and money, like magic

Backed by over 145 years of engineering excellence, PT Wizard is the easy-to-use program that provides a guided experience with built-in tools at your fingertips to ensure you can quickly find the exact solution you need.

- Product selection
- System design tool
- Competitive interchange
- Bearing grease calculator



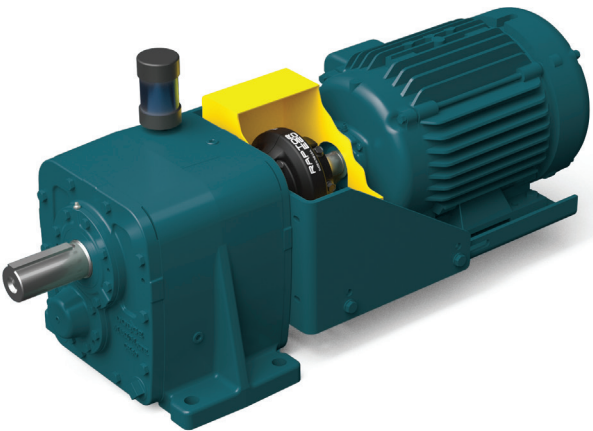
Access tools today at
ptwizard.com



Your one-stop-shop for packaged solutions

System1™ offers you an integrated, single-source solution for all your mechanical power transmission needs in water and wastewater applications.

At Dodge, we have the expertise and tools to assist with system design and optimized product selection to provide you with a customized, packaged solution for your exact requirements—making your wastewater project a success.



One system, one source, one solution

System1 empowers you to save time and money by offering complete, factory-assembled packages ready to install on your equipment with a single invoice, warranty, and point of contact.

To streamline your on-site installation requirements, a package can include motors, couplings, gearboxes, bases, guarding, drive components, shafting, bushings, conveyor pulleys, and mounted bearings.



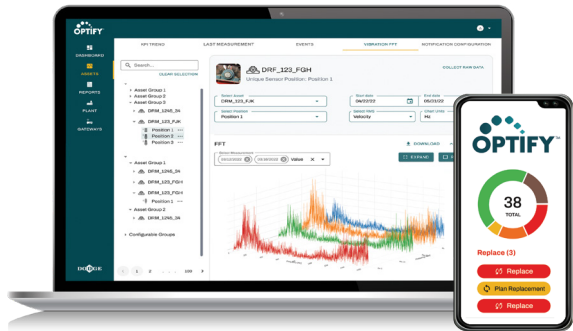
Backed by a 3-year warranty

Complete packages designed in PT Wizard or by a System1 engineer include a 3-year warranty for ultimate peace of mind.



Work smarter, not harder

OPTIFY™, our portfolio of Industrial Internet of Things (IIoT) solutions, allows you to easily monitor the overall health of your power transmission equipment and gain powerful insights—letting you know when maintenance is needed before it’s too late.



Platform

Take the guesswork out of work with the free OPTIFY condition monitoring platform that empowers you with overall health indicators of your assets anytime, anywhere through its web portal or mobile app—providing you with a continuous flow of data for safe, hands-free gathering of measurements.

Performance Sensor

Built on the proven success of Dodge sensors, the specialized wireless sensor remotely captures accurate measurements in your mounted bearings, gear reducers, and motors or complete powertrain condition monitoring.



Breather

The connected breather solution engineered to eliminate gearbox contamination, allowing you to tap into the power of the OPTIFY platform to remotely monitor breather health—enhancing gearbox reliability and simplifying on-site maintenance.



Intelli-Lube®

The premier automatic, connected lubricator that effortlessly extends the life of your bearings by replacing your manual lubrication process—streamlining maintenance, lowering costs, and improving safety with the right grease, volume, and interval every single time.



Expert service and technical support

As industrial operations face shortages with personnel and skill sets in their workforce, external support can help overcome the labor challenges. Dodge expert service technicians with proven experience in the field are available for on-site assistance to ensure your Dodge mechanical and digital solutions—from mounted bearings and gearboxes to couplings and sensors—are properly installed, commissioned, and maintained.

Backed by over 145 years of industry leadership, our field services are ideal to help you increase reliability and keep your operations running smoothly—maximizing uptime and minimizing ongoing maintenance costs.

Pre-installation: Our team is your partner to set your operation up for success, before our expert technicians even step foot on site.

Installation and commissioning: Ensuring your products are installed and set up properly is a critical phase where our expertise is necessary to ensure long-term, trouble-free operations.

Post-installation: Once your products are installed, our technicians can establish ongoing support to empower your team with the tools and resources to avoid costly unplanned downtime, minimize maintenance costs, and maximize production output.

Dedicated engineering support

Access to award-winning customer service is available at your fingertips when you need it most. The industry-leading team of experts at Dodge is based in the USA and is committed to providing premier support to help you succeed.

engineering@dodgeindustrial.com

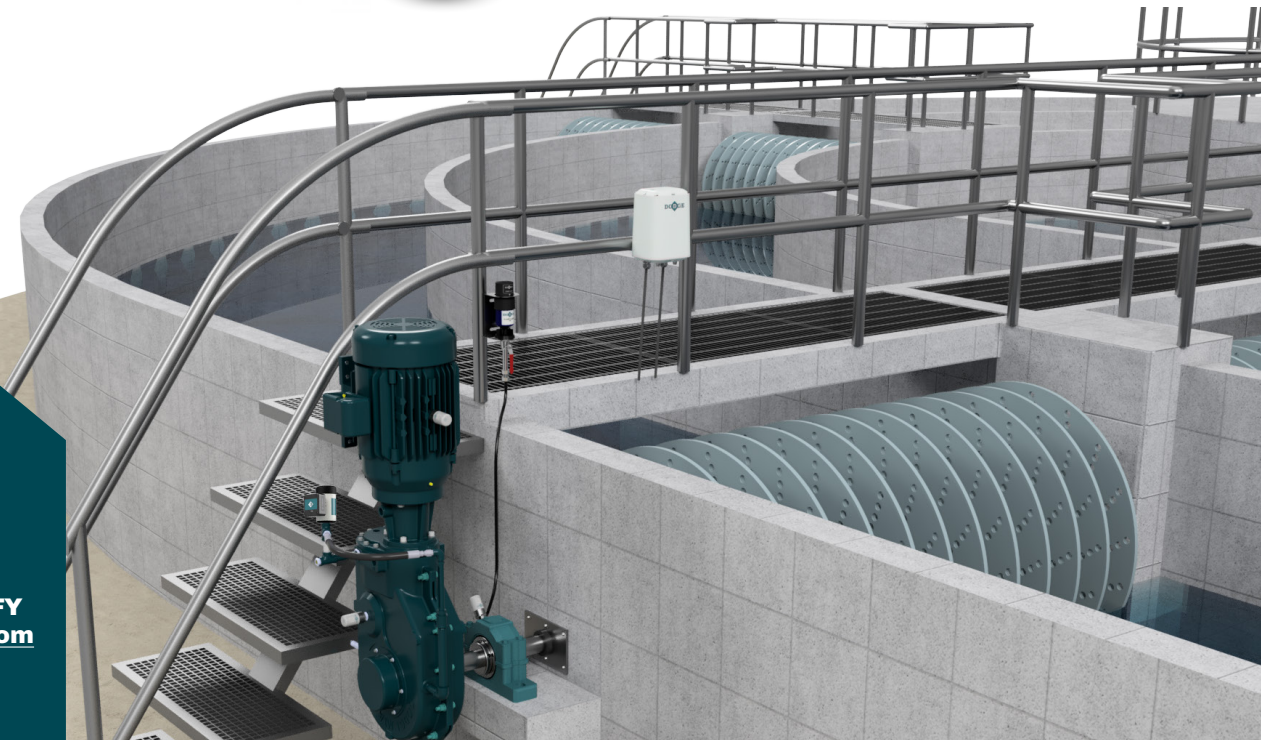
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Manufactured in the USA for over 100 years

Each of our five USA-based plants adheres to ISO 9001:2015 Quality Management System and meets world-class quality standards to provide you with unparalleled product availability and reliability. With multiple warehouse locations across the USA, there isn’t another mechanical power transmission manufacturer in the world that can provide you with the same level of support.



Scan to access OPTIFY or visit dodgeoptify.com





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