

CONVEYOR COMPONENTS

Conveyor Pulleys

Pulley solutions built for reliable performance throughout your system

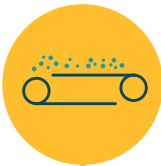




Your trusted partner

At Dodge®, we have spent more than 145 years helping operations keep material moving with reliable mechanical power transmission solutions. Our products support belt conveyor applications in aggregate, mining, cement, grain, and other bulk-material operations. From the original Torque-Arm gear reducer to the first Type E mounted bearing, Dodge innovations have earned a trusted place in demanding conveyor systems.

Pulley solutions for all conveyor systems



Complete offering

We make conveyor pulley selection easy for you with a complete offering of drum and wing pulleys, lagging materials, shafting, and locking devices designed to support virtually any conveyor pulley position or operating condition. Whether you're specifying a new conveyor or replacing existing components, you'll find the option to match your application requirements while simplifying specification, sourcing, and replacement through a single source.



In stock

Get pulleys quickly for new projects, planned maintenance, or urgent replacement needs with stocked inventory of common sizes available to help minimize lead time and keep your operation moving.



Ready-to-install assemblies

Cut on-site labor by having us install the shaft and our mounted bearings before shipment. Streamline sourcing further by packaging an assembly with one of our robust gear reducers as part of a System1™ drive package for a complete, single-source solution.

Drum pulleys

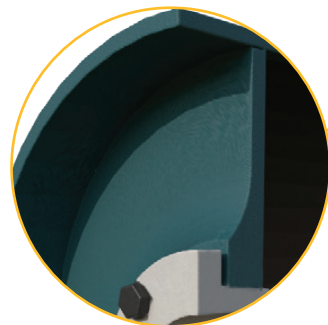
DuraPro™

Drum pulleys are used throughout conveyor systems for different functions, from transmitting torque for moving the belt to guiding the belt as material moves through the operation.

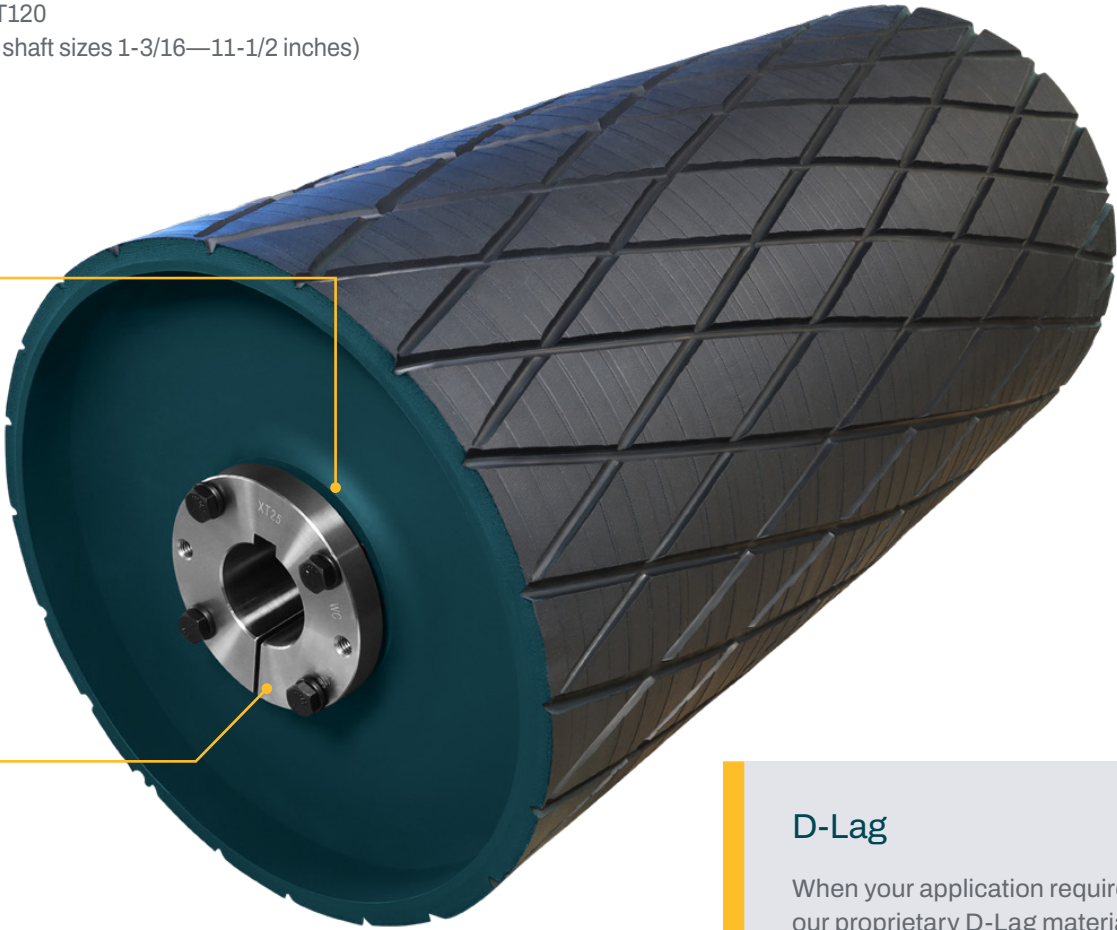
Selecting a drum pulley has traditionally meant navigating CEMA designs along with manufacturer-specific standard, quarry, and mine-duty offerings developed for different application requirements. With multiple duty classifications and rating methods that vary by manufacturer, identifying the right pulley can become unnecessarily confusing.

DuraPro streamlines selection with one drum pulley offering designed to support applications previously served by multiple pulley types, giving you a simpler path to matching the right solution to your conveyor application and operating conditions.

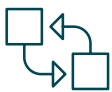
Diameter	Face width	Hub style
6—60 inches (150—1,525 millimeters)	12—66 inches (305—1,675 millimeters)	XT25—XT120 (supports shaft sizes 1-3/16—11-1/2 inches)



Integral profiled end-discs eliminate the hub-to-end-disc welds—the most common point of failure in conveyor pulleys—while distributing stress across the shaft and pulley to reduce bushing load and help prevent shaft walking



Pre-drilled and tapped hubs to accept XT bushings that feature a 9.5-degree tapered design to provide secure concentric shaft fit, deliver dependable torque transfer, and simplify installation and removal



Dimensionally interchangeable with multiple traditional pulley classifications and other manufacturers' drum pulleys for easy integration into your existing applications without modifications



Additional made-to-order options are available for nonstandard pulley designs, widths, and diameters



Common sizes are stocked to help reduce lead times and support faster replacement or installation needs

D-Lag

When your application requires reliable performance, our proprietary D-Lag material is a durable lagging solution that delivers enhanced traction, flexibility at low temperatures, and resistance to abrasions.

In DIN 53516 abrasion testing, D-Lag demonstrated it resists wear better than styrene-butadiene rubber (SBR) compounds—proving it can last up to two times longer than standard SBR lagging.

Stocked DuraPro drum pulleys are available with diamond-pattern D-Lag.



Lagging materials

Pulley lagging increases traction between the pulley and belt by providing a higher-friction rubber surface than bare or painted steel. Grooves channel water and fine material away from the contact surface, helping increase traction and reduce belt wear and damage. We offer a full range of lagging materials and patterns designed to perform in a wide range of environments.

D-Lag

Our proprietary D-Lag material provides increased resistance to abrasive wear, demonstrating up to two times longer wear life than standard SBR lagging in DIN 53516 testing.

When your application requires reliable performance, D-Lag is a durable lagging solution that helps reduce maintenance frequency and support maximum operation uptime.

Available thicknesses	Durometer options*
1/4, 3/8, 1/2, 3/4, and 1 inch	45, 60, and 70

* Additional hardness options available upon request

SBR

SBR is a general-purpose lagging compound that provides abrasion resistance and reliable traction in wet conditions for a wide range of conveyor applications.

Available thicknesses	Durometer options*
1/4, 3/8, 1/2, 3/4, and 1 inch	45, 60, and 70

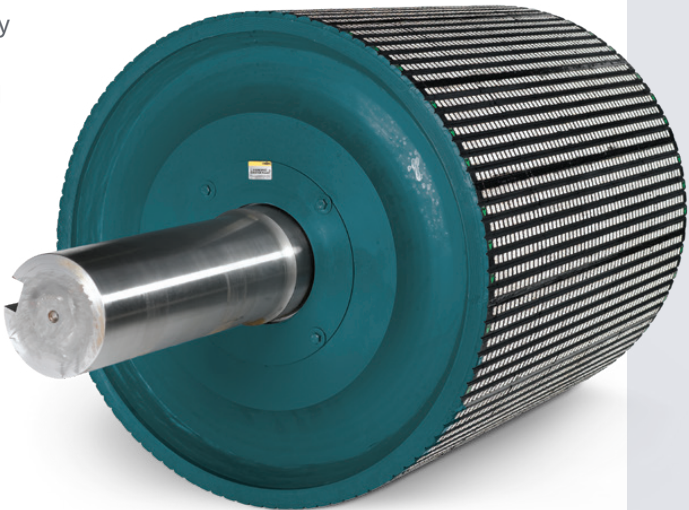
* Additional hardness options available upon request

Ceramic

Vulcanized ceramic tile lagging is designed for applications where heavy loads, increased belt tension, or abrasive materials can cause rapid wear or belt slippage. The ceramic tiles provide exceptional traction and abrasion resistance to combat these challenges, with coverage levels tailored to your specific application.

Available thicknesses	Durometer options*
1/4, 3/8, 1/2, 3/4, and 1 inch	45, 60, and 70

* Additional hardness options available upon request



Replaceable slide lag

Replaceable slide lag uses vulcanized rubber bonded to removable backing plates, held in place with rust-resistant retainers. Individual segments can be replaced without removing the pulley from the application, providing a quick-change solution to minimize maintenance time and complexity.



Food-grade rubber

Food-grade rubber lagging uses non-marking, essential compounds designed for sanitary or washdown environments, making it suitable for food processing and packaging conveyors.

Neoprene

Neoprene lagging is designed for underground conveyor applications requiring resistance to flame and oil exposure.

Flame-, oil-, and static-resistant (FOS) lagging

FOS lagging combines flame, oil, and static resistance for grain, fertilizer, and other bulk material-handling applications. Available in vulcanized or replaceable configurations, it helps dissipate static buildup in environments where combustible materials may be present.

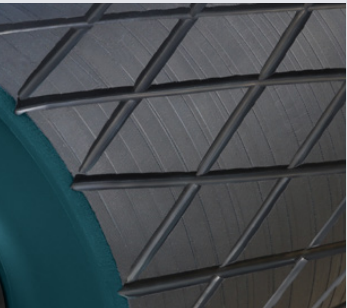
Nitrile

Nitrile lagging is formulated for conveyor applications exposed to petroleum-based oils, lubricants, grease, and oily materials. Its oil-resistant properties help prevent swelling, softening, and premature deterioration.

Lagging patterns

Diamond

Supports bidirectional pulley rotation while shedding water and reducing spare inventory requirements, making it a versatile choice for multiple conveyor positions such as head, tail, and take-up pulleys.



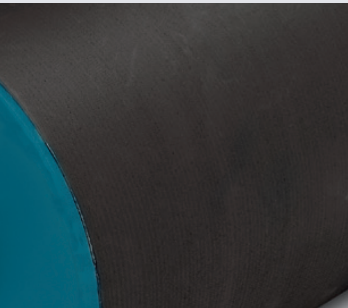
Herringbone

Grooves run in the direction of the belt and shed water, improving traction in wet or dirty conditions.



Plain

Plain, smooth lagging protects non-drive and return-side pulleys when additional traction is not required.



Wing pulleys

Wing pulleys support and guide the conveyor belt in non-drive positions, such as tail pulleys and gravity take-ups. Their open-wing design allows carryback material to fall away from the pulley, helping reduce material buildup that can contribute to belt wear and alignment issues.

To support a wide range of applications, wing pulley designs are available for different operating conditions, impact levels, and material-handling requirements.

Herringbone

Herringbone wing pulleys deliver enhanced self-cleaning performance with crowned wings at 45 degrees that expel material away from the belt path, while increasing surface contact with the belt to reduce the chance of material entrapment.

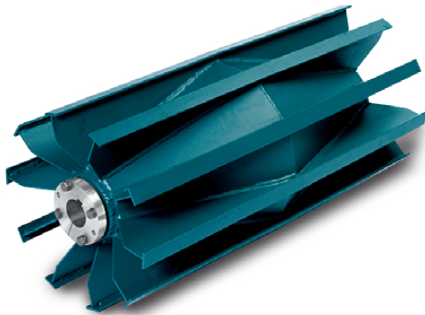
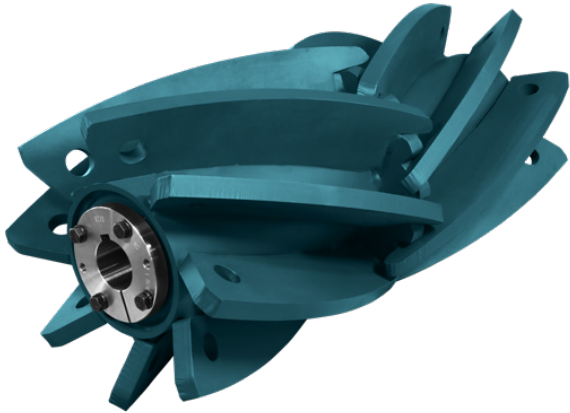
- Reinforced center discs stiffen the pulley body to prevent wing deflection under impact loading
- Crowned wing design helps minimize stress on the belt for increased belt life, while supporting precise belt tracking
- Available in plate-constructed and round-bar configurations designed to meet CEMA standards
- Optional abrasion-resistant contact bars are available for enhanced wear resistance and belt protection

Diameter*	Face width*	Hub style
Plate construction: 8—60 inches (205—1,525 millimeters)	12—78 inches (305—1,980 millimeters)	XT25—XT120 (supports shaft sizes 1-3/16—11-1/2 inches)
Round bar construction: 12—60 inches (305—1,525 millimeters)		
* Custom diameters and face widths available upon request		

Heavy-Duty

Heavy-Duty wing pulleys feature a self-cleaning wing design with contact bars that discharge material away from the belt. This prevents buildup that causes belt slip and abrasion, ensuring consistent traction and reduced wear on both the belt and pulley.

Diameter	Face width	Hub style
12—78 inches (305—1,980 millimeters)	12—66 inches (305—1,675 millimeters)	XT25—XT120 (supports shaft sizes 1-3/16—11-1/2 inches)

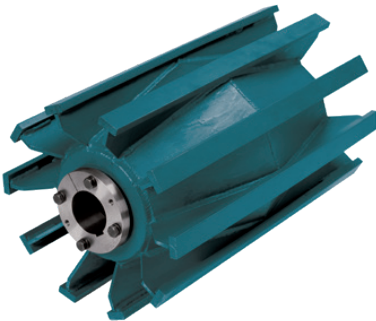


Mine-Duty

Mine-Duty wing pulleys are designed for applications with extreme operating conditions, including frequent loading and unloading cycles and heavy material flow. They feature large, thick wings, contact bars, and reinforced hubs that withstand high belt tension and repetitive material impact.

- Optional reinforcement rings provide added strength to resist wing folding during operation
- Optional abrasion-resistant contact bars are available for enhanced wear resistance

Diameter	Face width	Hub style
6—60 inches (150—1,525 millimeters)	12—66 inches (305—1,675 millimeters)	XT25—XT120 (supports shaft sizes 1-3/16—11-1/2 inches)



Additional made-to-order solutions are available for nonstandard widths or diameters of standard pulley designs.

Engineered designs

For applications that require nonstandard sizes or specialized designs, we can provide custom-engineered pulley solutions designed around your specific system requirements.

- Custom diameter, width, and shell thickness can be engineered for required belt tension, load, and operating conditions
- Lagging variations for custom thickness, groove pattern, and material
- Metric or nonstandard dimensions designed to integrate into global operations

If an on-site evaluation is needed, Dodge Sales Engineers can be your partner to evaluate application belt width, speed, tension, environment, pulley position, and drive connection details to ensure you choose the best solution.



Shafting capabilities

Get shafting cut and machined for your application as part of a complete pulley assembly. We can install the shaft in the pulley to give your team a single-sourced, assembled solution to minimize on-site machining and installation.

Stocked shafting

Non-keyed shafting

Diameter	Material	Length
1-7/16—5-15/16 inches (37—151 millimeters)	1045 steel	36—96 inches (915—2,440 millimeters) in 1/4-inch (6.4-millimeter) increments

Full-keyway shafting

Diameter	Material	Length
1-7/16—4-7/16 inches (37—113 millimeters)	1045 steel	36—96 inches (915—2,440 millimeters)

Custom shafting

- 4140 steel
- Turndowns, keyways, and custom machining

Locking devices

Locking devices play a critical role in securely mounting pulleys to shafts, ensuring reliable torque transmission while minimizing stress on connected equipment. Our offering provides the flexibility to match the mounting solution to your application, shafting, and performance requirements.

XT bushings

XT bushings are a widely used solution for pulley mounting. Their 9.5-degree taper angle provides strong shaft holding power while reducing bushing and shaft stress.

- Wide range of bore sizes available per hub size for application flexibility
- Straightforward installation using a split bushing design that draws the pulley evenly onto the shaft as mounting screws are tightened
- Simplified removal and maintenance using threaded flange holes and the same hardware to push the bushing free during disassembly



Keyless locking devices

Keyless locking devices are used in applications with frequent start-stop cycles, reversing loads, or high torque demands. By eliminating keyways and axial movement, they help maintain consistent torque transmission and reduce stress on both the pulley and shaft.

- Wide range of sizes available to support multiple shaft diameters
- No axial movement during installation, eliminating bushing-induced stress on the pulley
- One bore size per device size simplifies selection and provides full surface contact for consistent torque transmission

Pulley assemblies

Installation-ready solutions for new and existing conveyor systems

Our pulley assemblies combine the pulley, shafting, and mounted bearings into one coordinated unit. Designed for new conveyor installations and the replacement of worn or damaged components, each assembly helps simplify installation, reduce component handling, and support reliable conveyor operation.

Built to simplify installation

By supplying the pulley components as a complete assembly, we help you reduce the time, labor, and coordination required to source and assemble individual components on site.

- Installation-ready assembly helps reduce labor and setup time
- Conveyor-specific tagging supports correct placement during installation
- Reduced handling of individual components helps improve on-site safety
- Available with Dodge mounted roller bearings for a complete solution



Stocked to help keep conveyors moving

To support your planned installations and urgent replacement needs, pulleys and supporting components are stocked in multiple locations across the USA—giving you fast access to components needed to help simplify your on-site inventory management and keep your operation running smoothly.

Readily available components

Pulleys in common sizes and supporting components—from bushings to mounted bearings and shafting—are available off the shelf to support a wide range of applications

Multiple inventory locations

Wherever your operation is located, stocked inventory with minimal lead time is available nearby through our warehouses in Crossville, TN; Dallas, TX; Reno, NV; and Kansas City, MO

PT Place is our eCommerce platform that provides seamless ordering of products for authorized customers, stock availability, and additional product information.



PTPlace
Learn more at
dodge.ptplace.com

Conveyor design made easy, like magic

PT Wizard™ has been trusted across the industry for decades as an easy-to-use belt conveyor design program. Its guided experience helps you analyze and design conveyor systems using your application requirements.

In addition to conveyor design, PT Wizard includes product selection, competitive interchange, and bearing grease calculation tools to simplify system planning and maintenance.



Start designing your belt conveyor system at ptwizard.com

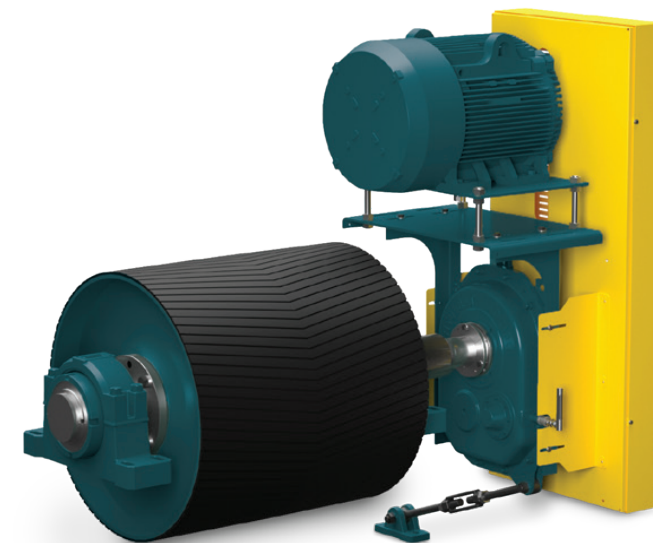


System1 engineered packages

From conveyor design to installation-ready systems

System1 brings together Dodge engineering expertise and the components needed for a complete drive package. Our System1 engineers can design a package around your application, sourcing the motor and selecting the couplings, gear reducers, bases, guarding, drive components, shafting, bushings, conveyor pulleys, and mounted bearings to create a power-matched system.

Once designed, System1 assembles all the components of your package together before shipment to reduce the on-site work for your team. To further streamline your project design through assembly and delivery, each package is supported through one point of contact, one invoice, and one warranty.



Advantages for your operation

- Reduced labor for assembly and installation
- Fewer individual components to source and manage
- Reduced need for on-site assembly
- One source for engineering support, products, and delivery

Expert engineering support

Our System1 engineers can provide application-specific support throughout the process, from product selection and system design through assembly and delivery.



3-year warranty

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

Technical support

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

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