MECHANICAL POWER TRANSMISSION

Product overview

- Complete line of products, including mounted bearings, enclosed gearing, couplings, pulleys and other PT components.

ABB offers complete mechanical solutions

Since 1878 Dodge® mechanical power transmission products have handled the toughest applications, providing the lowest total cost of ownership to both OEM's and end users. ABB offers the complete line of Dodge mounted bearings, enclosed gearing, couplings, pulleys and belted drives, all engineered and manufactured to perform reliably with less maintenance.

Dodge products feature industry leading patented sealing technology that provides extended life in both harsh duty and sanitary washdown applications. Unique mounting systems also make Dodge products easy to install and remove, without shaft damage.

Decades of experience applying mechanical products throughout a wide range of industries means we understand issues that impact productivity and can offer expertise to help improve output and productivity.

For larger projects, the Bulk Material Handling team specializes in customized bulk material handling conveyor drive solutions, combining design engineering skills with in-depth industry and product knowledge to deliver packaged solutions for projects in the mining, aggregate, cement, and grain industries. Our capability to package and pre-assemble products means we provide a complete system solution, with optimized product selection, one invoice and warranty, through an integrated single source for all of your mechanical and electrical needs

ABB is your partner for total mechanical power transmission solutions.

- Rugged and reliable service
- Easy installation and removal
- Easy maintenance
- Long product life
- Maximum process up-time
- Lower total cost of ownership

Mounted roller bearings

Leading industry producers trust Dodge mounted roller bearings to handle their conveyance and power transmission needs. Throughout the years, Dodge mounted roller bearings have earned the reputation for reliability and ease of maintenance.

Dodge mounted roller bearings feature innovative designs; including sealing options that protect the bearings from contamination that can cause failures, and a patented easy-on, easy-off adapter mounting and removal system that provides a concentric grip for superior holding on the shaft.

Type E-XTRA® tapered roller bearings

Product description	A mounted bearing with tapered rolling elements
Product features	Completely assembled, factory adjusted, and properly lubricated – shaft ready
	XTS triple-lip seal
	Extra protection – E-TECT™ seal option

Type EXL tapered roller bearings

Product description	A mounted bearing with tapered rolling elements with misalignment capabilities
Product features	Split-cap, ductile iron housing
	Type E mounting dimensions
	XTS triple-lip seal
	4° misalignment capability
	Expansion and non-expansion

TAF tapered roller bearings

Product description	A mounted tapered rolling bearing interchangeable with SAF style pillow blocks
Product features	XTS triple-lip seal
	E-TECT seal option available up to 7”
	Shaft ready – mounts six times faster than SAF
	Factory assembled, adjusted, and lubricated – shaft ready
	Up to 5° static misalignment

Double Interlock® tapered roller bearings

Product description	A mounted tapered roller bearing with dual locking collars
Product features	XTS triple-lip seal
	Extra protection E-TECT seal option
	Factory assembled, adjusted, and lubricated – shaft ready
	Special clearances and greases available

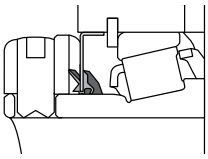
Type K tapered roller bearings

Product description	Tapered roller bearing with reduced length through bore
Product features	Single collar design saves space and installation time
	Allows bearing to be closer to the load for reduced shaft design
	Factory assembled, adjusted, and lubricated – shaft ready
	Dimensionally interchangeable with Double Interlock
	XTS triple lip seal
	Extra protection – E-TECT seal option

Special Duty tapered roller bearings

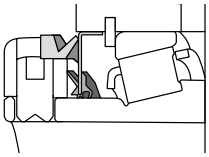
Product description	High capacity tapered roller bearing
Product features	Tapered adapter sleeve mounting
	Effective piston ring seals
	Rugged two-piece housing
	Heavy duty gray iron housing

XTS triple lip seal



Combination metal shield and lip that protects bearings from contamination and prevents grease loss. "XTS" stands for Xtra-tough seal. Nitrile rubber lips for less friction & heat. Proven performance in tough environments.

XTS Plus Seal with optional E-TECT seal kit



Good for use in wet or dusty applications, extends life of bearing in normal applications. Optional "XTS Plus" E-TECT seal kit for harsh environments. E-TECT seal kit is ordered separately. Kit contains seal and special collar for sizes 5" and below. Seal only for above 5".

IP spherical roller bearings

Product description	A mounted spherical roller bearing with a patented easy-on, easy-off adapter mounting and removal system
Available styles	2-bolt and 4-bolt pillow blocks, flanges, and take-ups
Product features	Accepts commercial tolerance shafting
	Available with trident triple lip and labyrinth seal options
	Full concentric shaft attachment with integral adapter sleeve mount
	Virtually eliminates fretting corrosion
	Capable of withstanding static or dynamic misalignment of ± 1°
	One piece, factory greased, out-of-the-box ready to install
	Available in Type E dimensions and cast steel housings
	Tapered seal land area maintains seal contact during maximum misalignment

ISAF spherical roller bearings

Product description	Patented Imperial adapter mounting system, dimensionally interchangeable with SAF style pillow blocks
Product features	Easy installation – no feeler gauges needed
	Available with trident triple lip and labyrinth seal options
	Capable of withstanding static or dynamic misalignment of ± 1
	Virtually eliminates fretting corrosion
	Tapered seal area maintains seal contact during maximum misalignment
	Factory greased, out-of-the-box ready to install

Mounted roller bearings

Hydraulic ISAF spherical roller bearings		
	Product description	Mounted spherical roller bearing with built in hydraulic mount and dismount system
	Available series	22200, 23000, and 23100 series
	Product features	Dimensionally interchangeable with SAF style products
		Combination triple-lip and auxiliary sealing system
		High strength ductile iron housing

ISN spherical roller bearings		
	Product description	A mounted spherical roller bearing with metric mounting dimensions that is dimensionally interchangeable with SN style housings
	Available styles	2-bolt and 4-bolt pillow block
	Product features	Accepts commercial tolerance shafting
		Available with trident triple lip and labyrinth seal options
		Full concentric shaft attachment with integral adapter sleeve mount
		Virtually eliminates fretting corrosion
		Capable of withstanding static or dynamic misalignment of ± 1°
		One piece, factory greased, out-of-the-box ready to install
		Tapered seal land area maintains seal contact during maximum misalignment

Hydraulic ISNX spherical roller bearings		
	Product description	A metric dimensioned mounted spherical roller bearing with a built-in hydraulic mount and dismount system.
	Product features	dimensionally interchangeable with SD 3100 style products
		Combination triple-lip and auxiliary sealing system
		High strength ductile iron housing

S-2000 spherical roller bearings		
	Product description	Mounted spherical roller bearing in a cast iron housing.
	Product features	Factory sealed and lubed
		High-capacity, double-row spherical rollers
		Permits static or dynamic misalignment of ±1˚
		Available with trident triple lip and labyrinth seal options
		Tapered seal area maintains seal contact during maximum misalignment
		Spring-lok collar mount with 65° setscrew spacing for optimum clamping force
		Available in Type E dimensions and cast steel housings

USAF spherical roller bearings

Product description	A 2 bolt and 4 bolt component based mounted split pillow block with inch mounting dimensions and both inch and metric shaft sizes.
Available series	22200, 22300, 23000, 23100, and 23200
Product features	Totally split spherical bearings available
	Industry-standard dimensions interchangeable with SAF housings
	Five sealing options to match most operating conditions
	Cast-in dimples locate drill holes for lube fitting, vents, sensors, and mounting modifications
	Standard housings have two oversized drains adaptable for circulating oil systems
	Pry slots allow easy separation of the pillow block

Unisphere® II spherical roller bearings

Product description	A narrow profile mounted spherical roller bearing
Product features	Comparable mounting dimensions with ball bearings
	Features same rolling elements and installation-ready components as S-2000
	Maintains sealing effectiveness with proven “R” seal
	Tapered seal area maintains seal contact during maximum misalignment
	Spring-lok™ collar mount with 65° setscrew spacing for optimum clamping force

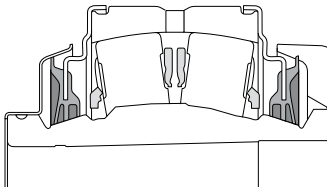
SNX/SDX spherical roller bearings

Product description	A mounted spherical roller bearing that matches industry standard SN and SD mounting dimensions
Available series	22200, 22300, 23000, 23100
Product features	Multiple seal options
	Grease or oil lubrication

Sealing

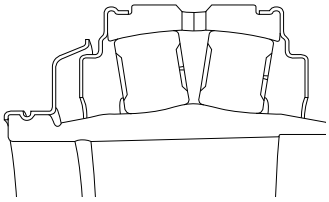
Today, our bearings feature innovative designs; including sealing options that protect the bearings from contamination that can cause failures, and a patented easy-on, easy-off adapter mounting and removal system that provides a concentric grip for superior holding on the shaft.

Trident seals



For dirty environments, low-to-medium speeds, and normal ambient conditions, these inserts feature our proven Trident seal. Made of nitrile material, this triple-lip rubbing seal assures a low coefficient of friction, and its seal land maintains full seal contact when misaligned.

Labyrinth seals



For higher speeds and temperatures, the inserts offer labyrinth seals with corrosion-resistant flingers and a clearance steel seal carrier.

Mounted ball bearings

When it comes to reliable performance and low maintenance, Dodge mounted ball bearings are unmatched in the industry. These bearings have been engineered with an array of innovative patented features that provide extended life in the toughest applications, including those found in the food and beverage industry.

Dodge mounted ball bearings are available in any of our proven locking devices; our exclusive 65° set screw locking system, eccentric locking collars, D-LOK concentric clamp locking system, and our patented Grip Tight® adapter mounted ball bearing.

Ultra Kleen® washdown ball bearings

Product description	A mounted ball bearing with either a reinforced polymer or stainless steel housing with a 440C stainless steel insert
Available locking devices	65° set screw
Product features	Patented polymer housing includes antimicrobial agent which resists bacterial and fungus growth
	Hydro Armor seal with 4 lip seals and extended metal flinger
	Max Life cage that extends grease life
	Stainless balls
	Metal detectable snap on end covers

E-Z Kleen® corrosion resistant ball bearings

Product description	A mounted ball bearing with either a reinforced polymer or a stainless steel housing with a corrosion resistant, coated insert
Available locking devices	65° set screw angle (SC), concentric clamp collar (D-LOK), and Grip Tight adapter mount
Product features	Patented polymer housing includes anti-microbial agent which resists bacterial and fungus growth
	Hydro Armor seal with 4 lip seals and extended metal flinger
	Max Life cage that extends grease life
	Interchangeable mounting dimensions with most competitive products
	Metal detectable snap on end covers

Extreme duty ball bearings

Product description	A mounted ball bearing designed for the harshest environments, equipped with a premium seal, premium cage and synthetic lubrication backed by an extended 3 year warranty
Available locking devices	65° set screw angle (SC), concentric clamp collar (D-LOK), Grip Tight adapter mount, and eccentric lock (SXR)
Product features	QuadGuard triple-lip seal with rubberized flinger
	Max Life cage that extends grease life
	Premium synthetic grease – Mobilith SHC 220 PM
	Snap-on end covers

Set screw ball bearings

Product description	A mounted ball bearing with a 65° set screw angle for greater holding power and ease of installation in confined areas
Product features	DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all SC, SCM ball bearings.
	Interchangeable mounting dimensions with most competitive products
	Plus or minus 2° static misalignment
Available options	High-temperature to 400°F (204°C) on SC and SCM
	LL lo torque labyrinth seals
	Expansion pillow blocks available for popular shaft sizes
	Snap-on end covers

Grip Tight ball bearings

Product description	A mounted ball bearing with a thin wall adapter mounting system that offers 360° full shaft contact and concentricity with no shaft marring or fretting corrosion
Product features	Integral dismount feature easily removes the bearing from the shaft
	DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all GT, GTM ball bearings
	Interchangeable mounting dimensions with most competitive set screw, eccentric collar, and concentric clamp collar products
	Snap-on end covers
	Does not require turned, ground, and polished shafting
Available options	LL lo torque labyrinth seals
	Expansion pillow blocks available for popular shaft sizes
	High-temperature available to 400°F (204°C)

Eccentric collar ball bearings

Product description	A mounted ball bearing designed for ease of installation
Product features	Eccentric collar locks the bearing to the shaft by a quarter turn of the collar in direction of shaft rotation; collar is secured in place with set screw
	DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all SXR ball bearings. Snap-on end covers available from stock for most popular cast housings.
	Interchangeable mounting dimensions with most competitive products
	Plus or minus 2° static misalignment
Available options	LL lo torque labyrinth seals optional.
	Expansion pillow blocks available for popular shaft sizes
	High-temperature option available to 400°F (204°C) on SXR

Mounted ball bearings

D-LOK concentric clamp collar ball bearing

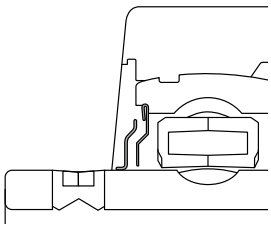
Product description	A mounted ball bearing designed for improved concentricity minimizing vibration and shaft damage during operation
Product features	Concentric clamp collar locks the bearing to the shaft by tightening a single Allen wrench cap screw; the bearing will not mar the shaft like set screw and eccentric collar bearings; provides concentricity between the bearing and shaft
	DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all DL, DLM ball bearings. Snap-on end covers available from stock for most popular cast housings.
	Interchangeable mounting dimensions with most competitive products
Available types	Expansion pillow blocks available for popular shaft sizes
	Plus or minus 2° static misalignment
	LL lo torque labyrinth seals optional.
	High-temperature option available to 400°F (204°C)

ER series ball bearings

Product description	Extended ring ball bearings designed with a cylindrical OD and snap ring to fit into user equipment.
Product features	Cylindrical outer diameter with snap-ring retention to fit user equipment
	Dodge's mechanically-retained ProGuard seal and flinger package to prevent contamination and maximize product life in dirty applications
Availability in two shaft attachment methods	Set screw (ER-SC) – 65˚ set screw angle for maximum shaft grip
	D-LOK (ER-DL) – Clamp collar grip for maximum concentricity to minimize vibration
Size ranges	Set screw – 204 series (3/4" bore size) through 218 series (3-7/16" bore size)
	D-LOK – 204 series (3/4" bore size) through 212 series (2-7/16" bore size)
Other common modifications	Low-drag labyrinth seal offering

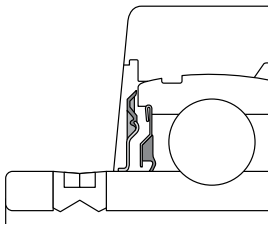
Sealing/accessories/advancements

Labyrinth seal



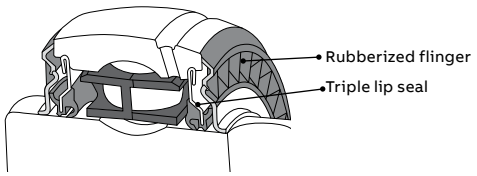
Non-contact seal design that is ideal for high speed or high temperature applications
Mechanically retained to eliminate seal blowout

DualGuard seal



Comprised of single lip seal and rubberized flinger that is included on all standard duty ball bearings
Standard on Extreme Duty
Mechanically retained to eliminate seal blowout

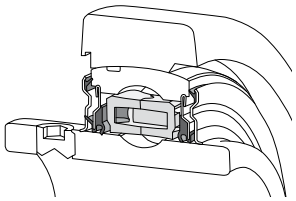
Patented QuadGuard seal



This patented triple-lip seal provides three points of contact to keep contaminants out and keep grease in. Rubberized flingers provide external protection, discarding contaminants as it rotates. Molded baffles in the flinger act like a paddle wheel to help deflect liquids.

Mechanically retained to eliminate seal blowout

Hydro Armor seal



Four contact lip seals with an extended metal flinger, designed for maximum protection in washdown applications

For E-Z Kleen and Ultra Kleen only

Mechanically retained to eliminate seal blowout

Snap-on end covers

Common Dodge housing configurations, including Ultra Kleen and E-Z Kleen, are machined with a groove to accept snap-on style polymer end covers that are durable and easy to install. They also include a drain hole to prevent moisture from collecting inside the cover, and help provide positive sealing in wet environments.

Max Life cage

Patented two piece cage design includes compartments around the rolling elements which reduces contamination ingress and grease washout. The large volume of grease travels with the rolling elements provides a constant oil film for superior performance.

Mounted plain bearings

Dodge mounted plain bearings are uniquely engineered to provide reliable performance in applications that are exposed to a wide range of severe operating conditions. Plain bearings feature patented technologies that reduce maintenance and ensure long service life.

Sleevoil® RTL series bearings

Product description	A base mounted hydrodynamic oil film bearing that utilizes a water cooled design to provide long life in continuous running industrial fan applications
Product features	Extended life (no metal-to-metal contact during operation)
	Handles moderate to high speeds
	Dampens vibration, provides quiet operation
	Fully split for ease of maintenance
	Self-aligning
Available options	External cooling (air, water, or oil) for hot shafts or high temperatures
	RTD's, heater/thermostat combo, circulating oil systems, auxiliary seal kits and isolators

Sleevoil R series bearings

Product description	A replacement for legacy units in existing applications, this base mounted oil film bearing utilizes water cooled design that provides long life in continuous industrial fan applications.
Product features	Extended life (no metal-to-metal contact during operation)
	Handles moderate to high speeds
	Dampens vibration, provides quiet operation
	Fully split for ease of maintenance
	Self-aligning
Available options	External cooling (air, water, or oil) for hot shafts
	RTD's, heater/thermostat combo, circulating oil systems, auxiliary seal kits and isolators

Oil level and filtration system (OLF2)

Product description	A self-contained oil filtration system designed for use with oil film bearings
Product features	Maintains proper oil level while bearing is running
	Increases bearing performance and life
	Allows even oil distribution and cooler operating temperatures
	Ensures filtered clean oil
	Custom-engineered to support Sleevoil bearings

Cool lube 2 system

Product description	Designed for oil lubricated roller bearings
Product features	Continuous: oil cooling, filtration, and level control
	For bearing applications where bearing operating temperatures and speeds approach maximum permissible levels, or harsh & dirty environments

Solidlube® sleeve bearings

Product description	A carbon-graphite bearing used in high temperature damper and oven applications where lubrication is critical
Housing types	2-bolt pillow blocks, 4-bolt and 2-bolt flange units
Product features	Ideal for slow speeds or oscillating shaft rotation
	Self-lubricating, statically self-aligning
	Covers a wide range of temperature extremes
	700 Series: -40°F to 700°F (-40°C to 370°C)
	1000 Series: -200°F to -40°F (-128°C to -40°C) and 250°F to 1000°F (120°C to 537°C)
	Ideal where bearings are subject to dry cycles

Babbitted journal bearings

Product description	A base mounted, grease lubricated, white metal sleeve bearing
Product features	Handles slow speeds and shock loads
	Capable of MPTA load ratings
	Cast-iron housings in 2- and 4- bolt pillow blocks
	Babbitted bushed bearing features solid or fully split housing

Bronze-bushed journal bearings

Product description	A base mounted, grease lubricated, bronze-bushed sleeve bearing
Product features	Handles slow speeds and offers durability
	Capable of MPTA load ratings
	Cast-iron housings in 2- and 4- bolt pillow blocks
	Bronze-bushed bearing features fully split housing
	Bronze bushing is split and easily replaced

Mounted plain bearings

Polymer sleeve bearings

Product description	A mounted bearing with a reinforced polymer housing and polymer sleeve self-lubricating insert
Product features	Polymer housing contains additive that resists bacterial and fungal growth
	All polymer and stainless steel construction
	Solid polymer housing has no cavities and no fillings
	Conforms to FDA /USDA specifications
	Handles low speeds and light loads
	No lubrication required, self-lubricated polymer sleeve insert for maintenance-free operation
	Offered in a wide variety of housing configurations and all popular bore sizes
	Operates in temperatures from -40°F (-40°C) to 180°F (82°C)

Take-up frames

Product description	Welded steel and cast iron components assembled for a base mounted or side mounted manual screw take-up frame
Product features	8 take-up frame types from stock
	Standard take-up frame travel from 1-1/2” to 60”
	Take-up frames allow for the mounting of Dodge ball, roller, and sleeve bearings
	Take-up frame capacity is pre-engineered to exceed bearing capacity
	Made to provide/maintain tension and shaft centers on a variety of belt and chain-type conveyors
	Telescoping and wide slot take-up frames are available in stainless steel

Tigear®-2

This line of single reduction, right angle worm gear reducers have been engineered to provide maximum value and durability. Shipped from the factory filled with H1 food grade synthetic lube and a ventless sealing system, the Tigear-2 requires no routine oil changes. An overhung load capacity that is unmatched in the industry provides long life in conveying applications.

Tigear-2 speed reducers

Product description	Single reduction, right angle worm gear
Case sizes	12 case sizes 1.33” to 4.75” center distances
Torque	Up to 6,800 lb-in (770 Nm)
Ratio	Nominal ratios from 5 to 60:1
Certifications	None
Product features	Single-worm with quill, separate or 3-piece coupled input
	Totally enclosed, ventless design that is maintenance free
	Higher torque ratings than competition
	Solid or hollow output
	Grip Tight bushing system available

E-Z Kleen reducers

Product description	Single reduction, right angle worm gear with superior corrosion resistance and sealing designed for harsh washdown applications
Case sizes	8 case sizes with 1.33" to 3.50" center distances
Torque	Up to 3,600 lb-in (410 Nm)
Ratios	Nominal ratios from 5 to 60:1
Certifications	IP69 for water
Product features	Coating system that provides greater than three times the corrosion resistance of standard epoxy painted units
	Stainless steel solid and hollow output shafts and stainless hardware
	Two piece harsh duty output seals

Ultra Kleen reducers

Product description	Single reduction, right angle worm gear with 300 series stainless housing, laser marked nameplate and sealing designed for harsh washdown applications
Case sizes	4 case sizes with 1.75" to 3.00" center distances
Torque	Up to 2,300 lb-in (260 Nm)
Ratio	Nominal ratios from 5 to 60:1
Certifications	IP69 for water
Product features	300 series stainless steel solid and hollow output shafts and stainless hardware
	Two piece harsh duty output seals

Accessories

Bushing kit

- Easy on, easy off Grip Tight tapered bushing system.

Helical attachment

- Provides a convenient way to increase the overall ratio and achieve a low output speed
- Easily attaches to a Tigear-2 reducer with 56C and 140TC quill or 3-piece coupled input
- No breather

Quantis®

The Dodge Quantis line of modular gear drives are engineered for flexibility and performance. Utilizing helical and bevel gearing, the Quantis offers a torque dense design, a wide ratio range and an efficiency of 98% per stage.

Quantis in-line helical (ILH)

Product description	The Quantis ILH uses all helical gearing in a cost effective, power dense in-line solution. The ILH can be either flange or foot mounted.
Sizes	38, 48, 68, 88, 108,128,148, and 168
Certifications	ATEX
Torque ratings	122,000 lb.-in. (Up to 14,000 Nm)
Ratio	1.4 to 7,670:1
Output shaft options	Solid

Quantis right-angle helical bevel (RHB)

Product description	The Quantis RHB product line uses helical-bevel gearing to provide a solution for a wide variety of applications. With an assortment of shaft and accessory options, it is can be used in shaft mounted or foot mounted installations.
Sizes	38, 48, 68, 88, 108, 128,148, and 168
Certifications	Atex
Torque ratings	119,000 lb.-in. (Up to 13,500 Nm)
Ratio	4.8 to 7,735:1
Output shaft options	Solid, straight hollow, twin tapered bushing hollow, Q-Loc keyless hollow and shrink disk

Quantis motorized shaft mount (MSM)

Product description	The Quantis MSM is an all helical gearing solution, and ideal for shaft mounted applications.
Sizes	38, 48, 68, 88, 108, 128,148, and 168
Certifications	Atex
Torque ratings	119,000 lb.-in. (Up to 13,500 Nm)
Ratio	6.7 to 7,670:1
Output shaft options	Solid, straight hollow, twin tapered bushing hollow, Q-Loc keyless hollow and shrink disk

Accessories

Internal backstop
Helps prevent reverse rotation in high stop-start loads, resulting in less wear and longer life. The centrifugal throw out design eliminates sprag sliding and reduces wear. It operates with standard and EP lubricants and requires no external lubrication. (Offered in units built in U.S. only.)

RHB torque arm bracket
For RHB shaft mounted applications using the "BF" style housing. The RHB torque arm bracket includes the bracket and hardware.

RHB tie rod kit
RHB tie rod kit includes mounting bracket, adjustable length torque arm and fulcrum with fasteners. Utilizing the "BF" style housing

Quantis E-Z Kleen

Product description	ILH, RHB and MSM
Case sizes	5 case sizes through 40 Hp (30 kW)
Torque	Up to 27,000 lb-in (3,100 Nm)
Ratios	Nominal ratios from 1.4 to 7,735:1
Certifications	IP69 for water
Inputs	Integral clamp collar or 3-piece coupled input
Product features	Unique coating system provides greater than three times the corrosion resistance of standard epoxy paint
	White or stainless steel color top coat
	XT harsh duty output seal quadra-lip design
	Thin Dense Nickel Composite (TDNC) plated output shafts
	Non-cavity hardware
	Factory filled with mineral, synthetic, or Food Grade USDA H-1 lubrication
	Water tight gasket on C-face input between motor and reducer

Quantis Ultra Kleen

Product description	RHB
Case sizes	2 case sizes through 5 Hp (4 kW)
Torque	Up to 4,000 lb-in (450 Nm)
Ratios	Nominal ratios from 5.6 to 179.1
Certifications	IP69 for water
Inputs	Clamp collar
Product features	Manufactured of 300 grade stainless steel
	Universal housing for foot or flange mounting
	Clamp collar size options: 56C, 140TC, and 180TC
	Output options: single extension solid, straight hollow bore, and Q-Loc keyless
	Factory filled with mineral, synthetic, or Food Grade USDA H-1 lubrication
	XT harsh duty output seal quadra-lip design
	Breather free operation
	Laser marked nameplate

ILH adjustable slide bases
Positions the reducer, providing simplified installation and servicing of the belt and chain drives. Position changes to obtain the desired belt or chain tension are easily accomplished by using the supplied adjusting screw

ILH scoop mount
Scoop mounts are steel fabricated assemblies to provide customers with alternative means of supporting the motor

Banjo Torque Arm
For RHB shaft mount applications the Torque Arm provides a compact means for restraining the reducer. Available in zinc plated or stainless steel

Torque-Arm family

This powerful line of shaft mount gear reducers deliver superior performance in harsh duty applications.

Motorized Torque -Arm II shaft mount reducers (MTA)	
Product description	Heavy duty, compact, right angle direct drive gear reducer, built to withstand shock loads and survive in harsh environments
Sizes	7 case sizes from 3 - 100 Hp (1.5 to 75kW)
Torque	Up to 130,000 lb.-in. (14,700 Nm)
Ratios	Nominal ratios range from 18-80 :1
Certifications	Third party ATEX certified
	Meets or exceeds AGMA standards
Product features	Heavy duty, dual sealing system is standard for maximum protection in harsh environments
	Compatible with both synthetic and mineral oil with or without extreme pressure (EP) additives
	Utilizes twin tapered bushings, to allow for easy on and easy off mounting which increases operating time
	Compatible with field installed backstop to maximize safety in all applications and industries

Modular accessories

Tie rod
Provides safety link between gear reducer and structure to prevent system rotation. Standard rods and turnbuckles are zinc coated providing corrosion resistance

Twin tapered bushings
Easy-on, easy-off accessory providing reliable support on both sides the gear reducer. Available for inch and metric shafts

Bushing covers
Protect workers from rotating bushings, MTA and TAII reducers are drilled and tapped to accept ABS robust plastic covers

Breather
Optional harsh duty breathers extend operating life

Torque-Arm II

Product description	Shaft mounted heavy duty gear reducer designed to increase equipment uptime and provide longer life
Sizes	12 sizes through 400 Hp (300 kW)
Torque	Up to 325,000 lb.-in. (36,700 Nm)
Ratios	5 ratios available with v-belt drives extending the range up to 300:1
Certifications	Third party ATEX certified
	Meets or exceeds AGMA standards
Product features	Industry proven, twin tapered bushings allow for easy-on and easy-off mounting
	Improved safety features with the use of bushing cover and belt guards
	Heavy duty, dual sealing system is standard for maximum protection in harsh environments
	Compatible with both synthetic and mineral oil with or without extreme (EP) pressure

TXT Torque-Arm family

Product description	Shaft mount gear reducer, providing superior performance in heavy duty industries maximizing equipment uptime and providing longer overall product life
Sizes	14 sizes up to 700 Hp
Torque	Up to 1,000,000 lb.-in.
Ratios	4 ratios available with v-belt drives extending the range up to 300:1
Certifications	Meets or exceeds AGMA standards
Product features	Harsh duty seals compatible with mineral or synthetic lubricant
	Dodge twin tapered bushing system, which allow for easy on easy off mounting providing the most reliable mounting system in the industry

Backstop
Safety feature that prevents reverse rotating when system stops. Compatible with standard and EP lubricants without requiring external lubrication

Motor mount
Provides stable mounting between motor and reducer to minimize overhung load and withstand heavy shock loads

Belt guard
Design allows for multiple height adjustments, featuring a lift-off cover construction

Screw conveyor accessories
CEMA adapter, adjustable packaging kit, and three hole drive shafts allow for quick installation

Maxum XTR concentric gear reducer

Maxum XTR gear reducers feature a rugged, compact design that performs in heavy duty applications. With a housing made of high strength ductile iron and high capacity overhung load ratings, this gear reducer is optimized for the best total system value in the market.

Maxum XTR

Product description	Concentric, inline gear reducer designed with heavy duty features, including rugged ductile iron housings, tapered bearings, and superior sealing system to extend operating life
Sizes	9 sizes up to 1,600 Hp
Torque	Up to 579,000 lb.-in.
Ratios	Nominal ratios from 2.25 to 194.6:1
Certifications	Meet or exceeds AGMA standards

Accessories

Scoop packages:
Utilizing either Dodge Raptor or Grid Lign couplings, these fabricated steel scoop packages are economical and compact way to connect the motor to the reducer

Top motor mount:
Reduce floor space required by utilizing this to mount NEMA or IEC motors on top of the gear reducer

Cooling fans:
Economical way to utilize the gear reducers mechanical rating. Options include mechanical or electrical fans

Backstops:
- Optional backstops are available to prevent reverse rotation on inclined conveyors.
- Operates with standard and EP lubricants

Slide bases:
Provides simplified installation and ease of servicing belts and chain drives that connect the reducer to the driven equipment

Custom baseplates:
Custom designed solutions for easy alignment of any motor or coupling

Heat exchangers:
- Optional accessory available to extend thermal capacities beyond the range of cooling fans
- These are also available for applications with high ambient temperatures

Magnagear XTR®

Dodge Magnagear XTR is a simple, power-dense reducer that offers increased reliability in a compact, heavy-duty package. Engineered with proven planetary and helical gear technology, this reducer is ideally suited for a variety of high torque applications.

With the reducer's standard, premium quality, tandem sealing system and cooling system, you can always depend on low-maintenance operation and maximum value for your money.

Magnagear XTR	
Product description	A heavy-duty, power dense, high torque reducer
Case sizes	12 sizes from 40 to 5,010 Hp (20 to 3,240 kW)
Torque range	From 100,000 to 3,500,000 lb.-in. (11,300 to 395,000 Nm)
Available configurations	Parallel shaft or right angle
Available output	Solid or hollow shaft
Product features	Rugged cast iron housings
	Gearing is carburized, hardened, and precision ground
	Premium tandem taconite seal system is standard with the oil seal protected by a contact excluder lip seal and grease cavity
	All bearings exceed best in class standards for L_{10} life
	Can be used with a variety of soft start mechanisms including VFD and fluid couplings
Capabilities & mounting	Modular design for reversibility and multiple mounting configurations, minimizing spare requirements
	4-sided mounting configurations
	Base and swing base mountings
	Tunnel housings
	Proven planetary design is utilized in sizes over 390,000 lb.-in. (44,000 Nm) to provide a compact, durable, light weight, economic solution for high torque applications
Engineered options	Internal lift-off style backstops
	Shaft and electric fans
	Torque arms
	Tunnel drive alignment free configurations
	Baseplates
	Inching drives

Magnagear XTR

Dodge twin-tapered bushing option

- Provides easy installation and removal of reducer from shaft
- Provides sturdy, concentric grip on the driven shaft on both sides of the reducer
- Eliminates the wobble and fretting corrosion associated with straight bore and single bushed reducers
- Full length key guarantees maximum torque transmission
- Installation and removal methods require no special tools
- Available up to sizes G600 and below

Parallel

Magnagear XTR model	Nm	kW rating range	Hp	Gear ratio
G100	11,520	30 to 180	45 to 295	8:1 to 63:1
G150	18,530	40 to 290	65 to 465	8:1 to 63:1
G210	25,420	60 to 400	100 to 645	8:1 to 63:1
G285	34,575	85 to 585	140 to 940	8:1 to 63:1
G390	48,470	120 to 795	195 to 1280	8:1 to 63:1
G525	63,160	350 to 1000	565 to 1545	8:1 to 28:1
G600	74,400	192 to 1450	309 to 1769	8:1 to 63:1
G700	82,480	455 to 1390	735 to 2135	8:1 to 28:1
G920	108,465	610 to 1810	980 to 2850	8:1 to 28:1
G1400	155,810	620 to 1875	995 to 3015	12:5 to 38:1
G2100	240,880	1055 to 2750	1695 to 4425	12:5 to 35:1
G3500	389,800	1610 to 4590	2595 to 7390	18:1 to 38:1

Approximate power ratings at 1.0 SF
Assumes 1750 rpm for Hp ratings and 1450 rpm for kW ratings

Right angle

Magnagear XTR model	Nm	kW rating range	Hp	Gear ratio
G100	11,410	30 to 125	45 to 199	12:5 to 63:1
G150	18,420	45 to 200	75 to 315	12:5 to 63:1
G210	25,310	60 to 275	100 to 440	12:5 to 63:1
G285	35,360	85 to 350	140 to 565	12:5 to 63:1
G390	44,520	105 to 415	175 to 665	12:5 to 63:1
G525	67,340	165 to 655	265 to 1015	12:5 to 63:1
G600	75,500	192 to 688	309 to 1043	12:5 to 63:1
G700	87,900	215 to 900	345 to 1385	12:5 to 63:1
G920	115,700	285 to 1145	460- 1765	12:5 to 63:1
G1400	158,920	390 to 1670	630 to 2685	12:5 to 63:1
G2100	245,700	585 to 2500	940 to 4025	12:5 to 63:1
G3500	397,600	1305 to 4180	1565 to 6725	18:1 to 63:1

Controlled Start Transmission (CST)

With Dodge CST drives, you get consistent, controlled starts and stops with enough power to drive the largest and longest conveyors. The CST is a 2 in 1 gearbox that combines a planetary gear reducer with an integral wet clutch system. When coupled to an AC induction motor the CST gearbox converts the motors high-speed, low-torque input to a low-speed, high-torque output, delivering total control of even the most heavily loaded conveyors.

Dodge CST	
System features	Controlled acceleration and deceleration ramps
	Parabolic starting curves
	Adjustable acceleration times
	Deceleration (not braking) ramps
	Multiple starting duty
	Cooling system designed for repeated starts
	Drive motor may be left running between starts
System benefits	
Motor	Using a CST start system, the motor is at full speed prior to loading, therefore the full breakdown torque of the motor is available without a special motor design.
	No load starts
	Frequent motor starts eliminated
Power grid	Minimizes voltage drops via sequenced motor starts where multiple drives are utilized
	kW demand reduced by unloaded motor starts
Gearing	Protected from shocks by clutch mechanism
	Efficient planetary design
Conveyor components	Delivers optimal motor load sharing to minimize the loads and stresses on all conveyor components
	Hydro-viscous clutch located at output of the CST absorbs transient shocks
	Parabolic acceleration ramp minimizes belt and pulley stresses

The CST package
A complete engineered drive package can be supplied that will include:

- Dodge CST
- IEC or NEMA motor
- Drive base
- Dodge couplings
- Flywheels
- Dodge engineered class conveyor pulleys
- Dodge mounted bearings
- PLC control system

Couplings

Uniquely engineered for easier installation, longer driven equipment life, and increased reliability in a broad range of applications. Dodge has manufactured couplings for over 100 years, earning a reputation for developing innovative products that lower customers' total cost of ownership.

The Dodge coupling product line can offer a solution to almost any customer need. Whether the need is an elastomeric or metallic design, Dodge can provide a coupling with the potential to increase torque capacity, accommodate shaft misalignment, extend life, improve operational efficiency, and reduce unexpected downtime.

Raptor coupling

Product description	Elastomeric, split tire style
Bore size	Up to 9" (229 mm)
Torque range	340,340 lb.-in. (up to 38,438 Nm)
Available elements	Flexible natural rubber, WingLock™ technology
Certification	Third-party ATEX certified
Product features	Industry leading misalignment capabilities
	Drop-in interchange without any modifications or additional materials
	Longer driven equipment life
	Maintenance free element
	Taper-Lock bushed hubs for clean, compact installation
	Slotted clamp ring holes offer 187% more hardware clearance
	Industry leading 5-year warranty

Para-Flex® coupling

Product description	A flange-mounted elastomeric tire style coupling
Bore size	Up to 8" (203 mm)
Torque range	Up to 453,000 lb.-in. (51,180 Nm)
Available elements	Natural rubber, Neoprene, and cordless
Certification	Third-party ATEX certification standard
Product features	Industry leading misalignment 4° angular, 1/8" (3.1 mm) parallel, and 5/16" (7.8 mm) end float
	Industry leading 5-year warranty
	Taper-Lock®, ductile iron FBX finished bore, and steel BBS bored-to-size flanges
	"Problem solver" element absorbs shock and dampens vibrations
	No maintenance- non-lubricated design assures trouble-free operation

Para-Flex flywheel

Product description	Flexible element connects to standard SAE flywheel bolt patterns
Product features	SAE bolt circle diameters from 8-3/4" to 25-1/4"
	Accommodates up to 6-7/8" bores and 85,050 lb.-in.

Poly-Disc

Product description	Elastomeric coupling with a polyurethane flexible disc
Product features	Polyurethane flexible disc resists chemical attack
	Allows 2° of angular misalignment & cushions shock loads
	Accommodates up to 3-1/4” bores and 10,900 lb.-in.

D-Flex coupling

Product description	An elastomeric sleeve style coupling
Bore size	Up to 6” (140 mm)
Torque range	Up to 72,480 lb.-in. (8189 Nm)
Available types	Close-coupled and Type SC spacer designs
Available elements	EPDM, Neoprene, and Hytrel
Certification	Third-party ATEX certification standard
Product features	Four-way flexing action handles shock, vibration, and misalignment
	Simple design and interchangeable components make installation quick and easy
	Ionized powder coat finish for superior corrosion protection
	Quick, easy installation – no maintenance required
	AGMA 9 dynamically balanced Type S and SC flanges
	Available in all common metric (ISO) and inch (ANSI)

Grid-Lign coupling

Product description	A flexible metallic lubricated tapered grid style coupling
Bore size	Standard range (1080T-1200T) accommodates up to 13” (360 mm)
	S-Series range through 21.85" (555 mm)
Torque range	Standard range (1080T-1200T) 1,650,665 lb.-in. (186,417 Nm)
	S-Series range through 7,000,000 lb.-in. (8,000,000 Nm)
Certification	ATEX
Available designs	T10, T20 close-coupled
	T35 half-spacer and T31 full spacer designs through size 1200T
Product features	Torque density and large bore capacities of a metallic coupling
	Misalignment and vibration damping capabilities of an elastomeric coupling
	Spacer designs can be used with brake discs or drums

Couplings

DGF Gear coupling

Product description	A flexible metallic lubricated gear style coupling
Bore size	Up to 42” (1050 mm)
Torque range	Up to 47,269,000 lb.-in. (5,340,000 Nm) torque
Available designs	Spacer, floating shaft, slide gear, and other customizable designs
Product features	Most power-dense metallic coupling available
	Crowned tooth profile for longer life
	Interchangeable with industry standard AGMA gear couplings through size 9
	Customizable features allow for use in virtually any application

Taper-Lock rigid

Product description	Rigid coupling utilizing taper lock bushings
Product features	Taper-Lock bushing connects varying diameter shaft sizes
	Flanges are all machined, and require no maintenance
	Accommodates up to 6” bores and 254,500 in. lbs.

Ribbed rigid

Product description	Clamp fit mechanical coupling
Product features	Rated load capacities of 1018 shafting
	Connects same diameter shafts via compression fit clamping
	Accommodates up to 7” bores and 404,000 lb.-in.

DM Moment coupling

Product description	A rigid metallic coupling for large gearbox applications
Bore size	Up to 15” (385 mm)
Torque range	Up to 2,100,000 lb.-in. (237,268 Nm)
Product features	Engineered to transmit torque and support the bending moment forces of an entire gearbox drive package
	Design reduces overall costs by allowing for an alignment free gearbox drive package
	ISO Grade 10.9 bolts
	Male and female piloted hubs manufactured from 4140 alloy steel

Chain

Product description	Metallic chain coupling in a compact design
Product features	Available with reborable, finished bore or Taper-Lock flanges
	Compact design offers high torque capability
	Accommodates up to 4-11/16" bores and 1,273 Hp applications

Fluid coupling

Product description	A fluid filled mechanical soft start coupling
Available designs	Standard, single, and double delay fill
Available styles	Drive style (sheave), and coupling style (Para-Flex & Gear)
Product features	Mechanical soft start dampens shock load and reduces motor current draw
	Smooth, controlled acceleration with customizable startup torques
	Accommodates applications 1840 kW at 1450 rpm (1360 Hp at 1750 rpm)

Flexidyne®

Product description	Steel shot mechanical soft start coupling
Product features	Mechanical soft start via flow charge (cast steel pellets) fill
	100% efficient, no slippage
	Available in three designs: drive, coupling and C-flex
	Accommodates up to 4.5" shaft and 250 Hp applications

Drive components

Dodge mechanical drive components offer innovative designs and reliable performance that improve energy efficiency and lower you total cost of ownership. All Dodge drive components are manufactured to meet or exceed MPTA standards.

HT500 synchronous belt drives

Available pitches	8 mm and 14 mm pitch with industry standard widths
Product features	98% efficient drive system compared to 93% for V-belt drives
	Less overhung load than v-belt drives and reduces maintenance costs as these belts do not require retensioning.
	Durable polyurethane belt construction resists chemicals, oils, pollutants, and abrasion
	Belt can operate in temperatures up to 185°F (85°C) and as low as -65°F (-54°C)
	Belt features robust carbon tensile cords that combine minimal stretch with extraordinary strength and load carrying capacity, while absorbing shock and surge loads
	Standardized with a taper-lock bushing system that delivers more torque, requires less shaft space, reduces bearing loads, and are easy to mount and dismount

HT250 synchronous belt drives

Available pitches	8 mm and 14 mm with various widths
Product features	98% efficient drive system compared to 93% for V-belt drives
	Fiberglass tensile cord provides high strength, excellent flex life, and high resistance to elongation
	Good for use in hazardous environment like enclosed grain as this product is static conductive in accordance with ISO 9583
	Greater belt lengths make this a good option for converting expensive, long center distance drives

Taper-Lock sheaves and bushings

Available sizes from stock	Complete bushing offering from size 1008 up to 120100 featuring extended bore sizes and our exclusive integral key taper lock bushing
Available materials	Bushings available in sintered steel, cast iron, ductile iron, steel, and stainless steel
	Sheaves available in both narrow (3V,5V,8V) and classical (A,B,C) profiles; From 1 to 12 grooves and up to 53" diameter
Product features	Easy to install and remove
	Requires less shaft space
	Only manufacturer that offers an integral key bushing which provides a potential 8-10% customer savings in material and labor
	Reduce bearing loads
	Engineered with an 8° taper
	Available in metric and inch bores

Idler brackets and bushings

Product features	Double adjustable bracket for maximum flexibility
	Positive ratchet locking between base and arm
	Idler bushings available in Taper-Lock and QD
	Use with standard Dodge sheaves, synchronous sprockets, and flat face pulleys
	Compatible with products machined for Taper-Lock 1610, 2012 and 2517 bushings

QD sheaves and bushings

Available sizes from stock	Complete bushing offering from size JA to S featuring extended bore sizes
	Sheaves available in both narrow (3V, 5V, 8V) and classical (A,B,C,D) profiles; From 1 to 12 grooves and up to 71” diameter
Available materials	Sintered steel, cast iron, and ductile iron
Product features	Easy on/easy off
	Conventional or reverse mounting
	Available in metric and inch bore sizes
	Manufactured to MPTA standards

Split Taper sheaves and bushings

Available sizes from stock	Bushing offering from size G to S1 including our exclusive H-Plus integral key bushing in 9 popular shaft sizes
	Sheaves available in one common B5V profile accommodating A, B, and 5V belts; from 1-6 grooves and up to 30” diameter
Product features	Keyed to both shaft and hub, the external key provides positive drive with no torque on the cap screws
	Double split bushing barrel improves true concentricity – grips the shaft with positive clamp fit
	Preferred bushing style in the HVAC industry
	ABB exclusive integral key H-plus bushings provide a potential 8-10% customer savings in material and labor
	Black powder coat for excellent corrosion resistance
	More diameters offered than the competition providing customers a larger variety of drive options and flexibility with output speeds

Light duty/HVAC sheaves and bushings

Available sizes from stock - Fixed pitch sheaves	AK/BK, AKH/BKH (up to 20 Hp); 1 and 2 grooves; pitch range offered as bushed (uses H bushings) and fixed bore (2 setscrews for tighter grip)
	AL (up to 2 Hp); OEM product (bulk packed)
Available sizes from stock - Variable pitch sheaves	VL (up to 5 Hp): OEM product (bulk packed); designed to be used with AL sheaves
	1VP/2VP (up to 25 Hp): 1 and 2 grooves; pitch range 1.9” to 6.7” (A belt) and 2.4” to 7.0” (B belt)
	MVS (up to 40 Hp): 2 grooves; used with A, B, 3V, & 5V belts

V-belts

Available sizes from stock:	D-V wedge belts (3V, 5V, 8V), cogged and wrapped
	Classic belts (A, B, C, D), cogged and wrapped
	Polyband belts - up to 6 bands

Heavy and mine duty conveyor pulleys

Dodge heavy and mine duty conveyor pulleys have been operating in the world's most demanding material handling applications for over 100 years. An extensive range of pulleys can be provided with high quality lagging designed to ensure maximum belt and pulley life in tough applications. With unmatched conveyor pulley engineering and manufacturing capabilities, Dodge pulleys deliver reliability worldwide.

Heavy duty drum pulleys

Available hub styles	HE or XT
Available lagging	Vulcanized lagging up to 25 mm thick in SBR, Neoprene, or D-Lag rubber
Product features	Available from stock in over 150 different sizes and lagging types
	Exceeds CEMA application standards for use with conveyor belts rated up to 350 PIW (61 kN/m)
	Meets CEMA dimensions

Mine duty extra drum pulleys

Available hub styles	Integral hub designs – HE or XT
Available lagging	Vulcanized or cold bonded ceramic lagging 12 mm, 16 mm, 19 mm, or 25 mm thickness
Product features	Available from stock in over 100 different sizes and lagging types
	Designed for use with conveyor belts rated up to 750 PIW (131 kN/m)
	Meets CEMA dimensions

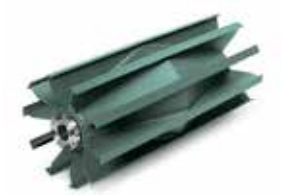
Spiral drum pulleys

Available hub styles	HE or XT
Available construction	Heavy duty, mine duty extra, or custom
Product features	Designed for mine service tail pulley applications requiring rugged durability with maximum belt cleaning
	Crowned or straight face
	Meets CEMA dimensions

Engineered drum pulley

Available hub styles	HE, XT or Bikon
Product features	Custom designs based on conveyor loading for maximum life
	Integral hub, profiled, turbine and T-Section end disc designs
	Vulcanized lagging up to 1" thick in SBR, Neoprene or D-Lag rubber
	Variety of lagging methods and styles available
	Imperial or metric dimensions
	Designed for use with conveyor belts exceeding 800 PIW (1,400 kN/m)
	2 year warranty

Heavy duty wing pulleys



Available hub styles	HE or XT
Product features	Heavy duty contact bars for high durability
	Slide-on urethane Wing-Lag available
	Meets CEMA dimensions

Mine duty wing pulleys

Available hub styles	HE or XT
Product features	Heavy duty contact bars for high durability
	Rubber vulcanized directly onto wings available
	Meets CEMA dimensions

Herringbone wing pulleys

Available hub styles	XT
Product features	Over 200+ part numbered sizes available
	AR400 contact bars available
	Wing angles of up to 45°
	Center reinforcement disc for increased wing strength

Spiral wing pulleys

Available hub styles	HE or XT
Product features	Heavy duty contact bars for high durability
	Rubber vulcanized directly onto wings available
	Smooth running for low impact on belt splices

Heavy and mine duty conveyor pulleys

Elevator pulleys

Available hub styles	HE or XT
Available lagging	Vulcanized lagging in SBR or FOS (Fire, oil & static resistant) rubber
Product features	Single disc and double disc drum types
	Holz and Holz SOF style 5 lagging
	Exceeds CEMA application standards up to 350 PIW (61 kN/m)

Conveyor pulley bushings

Product features	Dodge XT bushings with 9.5 degree taper angle interchange with competitive products)
	Dodge HE bushings with 14 degree taper angle featuring larger bolts and more bolts versus competitive designs (HE 45 and larger)
	Dodge QD and QDS bushings offer a 4 degree taper angle and flange mounting
	Dodge Taper-Lock bushings with 8 degree taper angle and slim profile design

Shafting

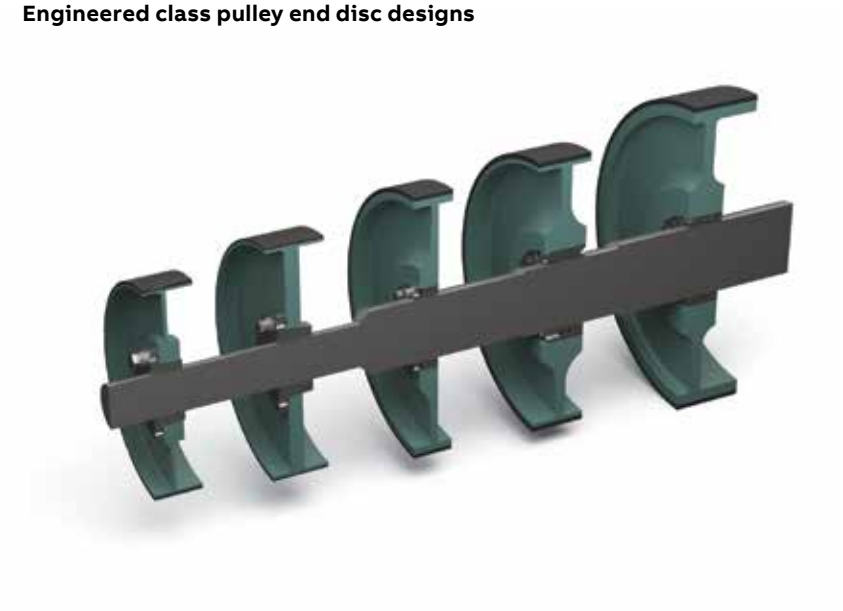
Product features	Engineering, design and manufacture of custom shafting
	1045 & 4140 steel standard
	Stainless steel upon request
	Cold rolled, hot rolled and forged
	Ultrasonic and magnetic particle testing available
	Custom keyways, turndowns, drill & tap and tolerance requirements
	Certified prints provided for all custom shafting

Pulley assemblies

Benefits	Complete assembly of conveyor pulley, bushings, shaft, bearings and coupling
	Expert mounting and lubrication of large bore bearings
	All exposed metals covered with anti-rust protection
	Long-term storage preparation available
	Custom pallets for both flatbed and export shipments available

Engineered class pulleys	
Shaft locking devices	HE, XT or Bikon
End disc designs	Integral hub, profiled, turbine and T-section
Available lagging	Vulcanized, standard SBR, fire and oil resistant Neoprene, or abrasion resistant D-Lag. High-traction ceramic (available cold bonded or vulcanized)
Product features	Standard 1045 or high strength 4140 shaft material
	Available stainless steel construction for non-magnetic applications
	2 year warranty
Manufacturing capabilities	High-strength submerged arc welds
	Thermal stress relieving
	CNC machining of shaft and pulley
	Static and dynamic balancing
	Expert assembly of pulley, shaft, bearings, coupling and backstop
Quality certifications	ISO 9001:2008
	AWS and ASME certified welding procedures and welders
	ASNT NDE certified inspection program
	Material certifications on all materials

Engineered class pulley end disc designs



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