

PRODUCTS & SERVICES

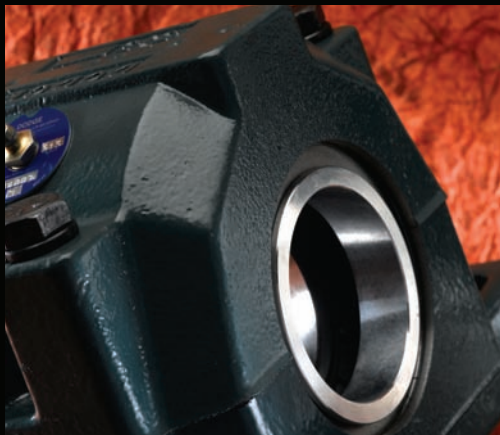
BALDOR • DODGE®



**BALDOR®**

**Baldor's Mission...**

*To be the best  
(as determined by our customers)  
marketers, designers and manufacturers of  
industrial electric motors,  
mechanical power transmission products,  
drives and generators.*







# POWER PLUS PERFORMANCE

WHO KNEW POWER COULD ADD UP TO SO MUCH

With Baldor•Dodge products, you get more than just power. You get the widest range of mechanical products available – plus the added assurance of a reliable partner dedicated to responsive service and complete support.

For well over a century, Baldor•Dodge products have helped manufacturers, OEMs, and producers increase the productivity and profitability of their operations. By focusing on each industry and concentrating on its specific needs, we have developed innovative product solutions and advanced technologies that help improve output, decrease downtime, and enhance system value.

Only Baldor•Dodge products offer you a total mechanical power transmission solution: rugged, reliable products with patented features along with experienced field experts.

When you add all these things up, you get the absolute assurance of Power Plus Performance.

*With  
Baldor•Dodge  
products you get the  
absolute assurance of  
Power Plus Performance  
and industry-specific  
solutions from experts who  
understand the products  
they are selling and the  
environment in which these  
products are used.*



## Bearings

Ball Bearings  
Tapered Roller Bearings  
Spherical Roller Bearings  
Sleeve Bearings  
Plummer Block Bearings  
Take-Up Bearings  
Hydrodynamic Bearings  
OLF - Oil Level & Filtration System  
Take-Up Frames  
Smart Products  
Duplex Bearings (Two-Bearing Housings)

## Gearing

TORQUE-ARM® Shaft Mount Reducers  
TORQUE-ARM II™ Shaft Mount Reducers  
TORQUE-ARM II Motorized Shaft Mount Reducers  
TIGEAR-2® Speed Reducers  
QUANTIS® Reducers & Gearmotors  
MAXUM® Concentric Speed Reducers  
CST® (Controlled Start Transmissions)  
MAGNAGEAR XTR™

## PT Components

Couplings  
Conveyor Components  
Weld-On Hubs  
Bushings  
Sheaves  
Synchronous Belt Drives  
Belts  
Motor Brakes  
Clutch/Brake Modules  
Sprockets

## System-1

- Integrated solution for multiple-product power transmission projects
- Complete package of optimized, performance-matched Baldor•Reliance and Baldor•Dodge products
- Single point of contact for project management
- Total-package shipping under one part number

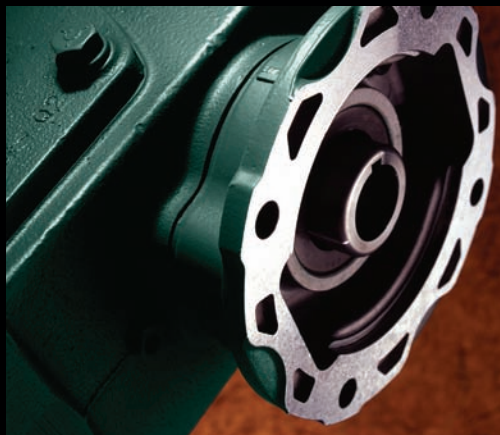


Recognized for world-class efforts, LEAN practices, innovative technologies, and improvement strategies, Baldor•Dodge Marion, NC and Asheville (Weaverville, NC) plants have both been named one of Industry Week's Top 10 Best Plants. The Baldor•Dodge Marion plant manufactures Type-E, S-2000 and S-2000-E, and IMPERIAL and IMPERIAL-E Bearings. The Asheville plant in Weaverville, NC manufactures Mechanical Drive Components, Couplings, Clutches, Brakes and Hydrodynamic Bearings.



**For Baldor•Dodge contact info and to locate a distributor near you:**

- Please visit [www.baldor.com](http://www.baldor.com)





# MOUNTED BALL



For more than 120 years, Baldor•Dodge has been one of the leading suppliers of power transmission products and system components in the world. Today we utilize our global resources to ensure that bearing users throughout the world have access to the highest quality and best

selection of mounted bearings in the industry.

When it comes to reliable service and low maintenance, Baldor•Dodge mounted ball bearings are unmatched in the industry. Baldor•Dodge mounted ball bearings are available in any of our proven locking devices: our exclusive 65° setscrew locking system, eccentric locking collars, D-LOK™ concentric clamp locking system and our patented\* GRIP TIGHT® adapter mounted ball bearing.

All Baldor•Dodge mounted bearing products are backed by our worldwide distribution system and our highly trained and experienced technical sales team.



### Ultra Kleen – SS Inserts

- 440°C Stainless Steel Insert
- Polymer and Stainless Housings
- 65° Setscrew
- 3/4" - 2" Bore
- 20 - 55mm Metric Bore
- QuadGuard Seal
- Stainless Balls
- Maxlife Cage
- Snap-in Style End-Covers
- Nomenclature: P2B-SCEZ-100-PSS
  - PSS = Polymer Housing, Stainless Insert
  - SHSS = Stainless Housing, Stainless Insert



### Extreme Duty – SCED, SCMED

- Harsh-duty seals are standard
- QuadGuard-Triple-Lip Seal with Rubberized Flinger
- Maxlife Cage
- Synthetic grease is standard – Mobilith SHC 220 PM
- End Covers – Pop-In Style
- 65° Setscrew
- Wide inner ring design
- Anti-Rotation Pin to prevent insert from spinning in housing
- Grade 10 balls
- Bore Range
  - SC - 3/4" to 2-15/16", 20mm to 75mm
  - SCM - 1" to 3-1/2", 25mm to 85mm



### Baldor•Dodge Ball Bearing Key Industry Applications

- AGGREGATE / CEMENT
- MINING
- HVAC / AIR HANDLING
- UNIT / BAGGAGE HANDLING
- FOOD / BEVERAGE / PHARMACEUTICAL
- FOREST / PAPER PRODUCTS
- METALS

\*USA PATENT 6939053



### Setscrew Ball Bearings

- Four types: normal duty SC, medium duty SCM, intermediate duty VSC, and light duty SL
- DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all SC, SCM ball bearings. LL Lo Torque Labyrinth seals optional. Snap in end covers available from stock for most popular cast housings.
- Interchangeable mounting dimensions with most competitive products
- 65° setscrew angle for greater holding power and ease of installation in confined areas
- Anti-rotation device on SC and SCM bearings prevents insert rotation associated with heavy loads, vibration, unbalanced loads, and high-speed applications
- Expansion pillow blocks available for popular shaft sizes
- High-temperature option available to 400°F on SC and SCM
- Plus or minus 2° static misalignment



### GRIP TIGHT Ball Bearings

- Two types: normal duty GT and medium duty GTM
- DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all GT, GTM ball bearings. LL Lo Torque Labyrinth seals optional. Snap in end covers available from stock for most popular cast housings.
- Interchangeable mounting dimensions with most competitive setscrew, eccentric collar, and concentric clamp collar products
- Thin Wall Adapter mounting offers 360° full shaft contact and concentricity. No shaft marring or fretting corrosion like setscrew and eccentric collar products. Integral dismount feature easily removes the bearing from the shaft. Turned, ground, and polished shafting is not required.
- Anti-rotation device prevents insert rotation associated with heavy loads, vibration, unbalanced loads, and high-speed applications
- Expansion pillow blocks available for popular shaft sizes
- High-temperature option available to 400°F
- Plus or minus 2° static misalignment



### Eccentric Collar Ball Bearings

- Three types: normal duty SXR, intermediate duty SXV, and light duty SLX
- DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all SXR ball bearings. LL Lo Torque Labyrinth seals optional. Snap in end covers available from stock for most popular cast housings.
- Interchangeable mounting dimensions with most competitive products
- 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 setscrew
- Anti-rotation device on SXR prevents insert rotation associated with heavy loads, vibration, unbalanced loads, and high-speed applications
- Expansion pillow blocks available for popular shaft sizes
- High-temperature option available to 400°F on SXR
- Plus or minus 2° static misalignment

### D-LOK Ball Bearings

- Two types: normal duty DL and medium duty DLM
- DualGuard seal – comprised of single lip seal and rubberized flinger – standard on all DL, DLM ball bearings. LL Lo Torque Labyrinth seals optional. Snap in end covers available from stock for most popular cast housings.
- Interchangeable mounting dimensions with most competitive products
- 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 setscrew and eccentric collar bearings, provides concentricity between the bearing and shaft
- Anti-rotation device prevents insert rotation associated with heavy loads, vibration, unbalanced loads, and high-speed applications
- Expansion pillow blocks available for popular shaft sizes
- High-temperature option available to 400°F
- Plus or minus 2° static misalignment

### Corrosion Resistant Ball Bearings – ULTRA KLEEN and E-Z KLEEN

- Reinforced polymer and stainless steel housings
- Patented polymer housing includes anti-microbial agent which resists bacterial and fungus growth
- Two inserts: corrosion resistant (comparable to 440 stainless steel) and standard steel insert with flingers
- Three locking devices: 65° setscrew angle (SC), concentric clamp collar (D-LOK), and GRIP TIGHT® adapter mount
- Quadguard seal – comprised of our triple lip seal and unique rubberized flinger. Additional grease retention provided by the Maxlife cage.
- Interchangeable mounting dimensions with most competitive products
- Anti-rotation device prevents insert rotation associated with heavy loads, vibration, unbalanced loads, and high-speed applications
- Plus or minus 2° static misalignment

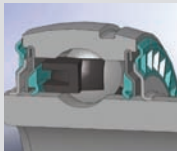
### Air Handling Ball Bearings

- Setscrew: normal duty (SCAH) and medium duty (SCMAH)
- GRIP TIGHT®: normal duty and medium duty
- Single-lip contact seal (standard on SCAH and SCMAH), single-lip contact seal with flingers (optional on SCAH and SCMAH, standard on GTH and GTAH), low-torque labyrinth seal (optional), end covers available from stock
- Interchangeable mounting dimensions with most competitive products
- Anti-rotation device prevents insert rotation associated with heavy loads, vibration, unbalanced loads, and high-speed applications
- Plus or minus 2° static misalignment
- Expansion pillow blocks available for popular shaft sizes
- High-temperature option available to 400°

## ADVANCEMENTS THAT LOWER YOUR TOTAL COST OF OWNERSHIP

### DualGuard Seal

Comprised of single lip seal and rubberized flinger – included on all standard duty ball bearings. LL Lo Torque Labyrinth seals optional. Snap in end covers available from stock for most popular cast housings.



than steel or normal fiberglass, especially under misalignment. That means longer life in mounted bearings where some degree of misalignment is unavoidably encountered.

### Anti-Rotation Pin

An anti-rotation pin prevents rotation of the outer race within the housing. Simple and effective, it makes system inserts easier to replace. There is no need to remove and replace grease fittings, location pins or other devices.



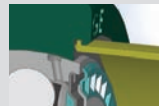
### Stronger, More Flexible Cage

The ball cage is made of heat stabilized nylon with 33% fill short fiberglass reinforcement for added strength. The nylon material provides a natural lubricity for longer life. Fiberglass reinforcement allows higher operating temperatures than plain nylon, yet is more resistant to fatigue than metallic cages. Short fiberglass allows greater flexibility

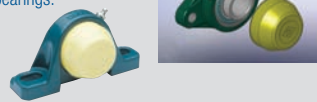


### Snap-On End Covers

Baldor•Dodge also offers a series of injection-molded, impact resistant end covers. Covers are manufactured in OSHA safety yellow and fit most

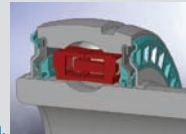


styles of Baldor•Dodge cast-iron-housed ball bearings.



### Quadguard Seal

- Triple-lip seal provides 3 points of contact to keep contaminants out and keep grease in.
- Mechanically retained seal for added strength – allows grease to purge without blowing seals.
- Patented design of the triple-lip seal produces less drag than competitive offerings.
- Rubberized flinger provides external protection and discards contaminants as it rotates.
- Molded baffles in flinger act like a paddle wheel to help deflect liquids.



- Molded rubber increases the radius of the flinger which increases the acceleration rate of the contaminants as they are thrown away from the bearing.
- Rubber molding on the flinger is extended to the outer race of the bearing, providing better protection than non-rubberized offerings.

### Maxlife Cage

- Two-piece design
- Creates compartments that keep grease in close contact to balls
- Compartments help prevent grease from being washed out during high pressure cleaning
- Extends the time in between lubrication
- Cooler operating temperatures extend life of grease
- Maxlife cage is standard for Extreme Duty and Ultra/EZ Kleen ball bearings



|                                | Setscrew     |             | GRIP TIGHT   |             | Eccentric       |             | D-LOK        |             | E-Z KLEEN / ULTRA-KLEEN |             |
|--------------------------------|--------------|-------------|--------------|-------------|-----------------|-------------|--------------|-------------|-------------------------|-------------|
| Pillow Blocks                  | 1/2 - 3-1/2  | 17mm - 90mm | 1/2 - 3-1/2  | 17mm - 85mm | 1/2 - 2-15/16   | 17mm - 75mm | 3/4 - 3-7/16 | 20mm - 70mm | 3/4 - 2                 | 20mm - 50mm |
| Tapped Base Pillow Blocks      | 1/2 - 2-1/4  | 20mm - 55mm | 3/4 - 2-1/4  | 20mm - 55mm | 3/4 - 2-3/16    | 20mm - 55mm | 3/4 - 2-3/16 | 20mm - 55mm | 3/4 - 2                 | 20mm - 50mm |
| 2 & 4 Bolt Flanges             | 1/2 - 3-1/2  | 17mm - 90mm | 1/2 - 3-1/2  | 17mm - 85mm | 1/2 - 2-15/16   | 17mm - 75mm | 3/4 - 3-7/16 | 20mm - 70mm | 3/4 - 2                 | 20mm - 50mm |
| Flanged Brackets               | 1/2 - 2      | 20mm - 50mm | 3/4 - 2      | 20mm - 50mm | 3/4 - 2         | 20mm - 50mm | 3/4 - 2      | 20mm - 50mm | 3/4 - 2                 | 20mm - 50mm |
| LFT & LF 2 & 3 Bolt Flanges    | 1/2 - 1-7/16 | 17mm - 35mm | 1/2 - 1-7/16 | 17mm - 35mm | 1/2 - 1-7/16    | 17mm - 35mm | 3/4 - 1-7/16 | 20mm - 35mm | 3/4 - 1-7/16            | 20mm - 35mm |
| Piloted Flanges                | 1 - 3-1/2    | 25mm - 90mm | 1 - 3-1/2    | 25mm - 85mm | 1-1/8 - 2-7/16  | 25mm - 60mm | 1 - 3-7/16   | 25mm - 70mm | N/A                     | N/A         |
| Take-Up Bearings               | 1/2 - 3-1/2  | 20mm - 90mm | 3/4 - 3-1/2  | 20mm - 85mm | 3/4 - 2-15/16   | 20mm - 75mm | 3/4 - 3-7/16 | 20mm - 70mm | 3/4 - 2                 | 20mm - 50mm |
| Hanger Bearings                | 1-1/16 - 2   | 30mm - 50mm | N/A          | N/A         | 1-1/16 - 2      | 30mm - 50mm | N/A          | N/A         | N/A                     | N/A         |
| Screw Conveyor Hanger Bearings | 1 - 3-1/2    | 25mm - 90mm | 1 - 3-1/2    | 25mm - 85mm | 1-7/16 - 2-7/16 | 35mm - 60mm | 1 - 3-7/16   | 25mm - 70mm | N/A                     | N/A         |
| Cylindrical Units              | 7/8 - 1-7/16 | 25mm - 35mm | N/A          | N/A         | 7/8 - 1-7/16    | 25mm - 35mm | 7/8 - 1-7/16 | 25mm - 35mm | N/A                     | N/A         |



# ROLLER



Only one name is synonymous with the finest-quality mounted tapered and spherical roller bearings: Baldor•Dodge. We are the standard against which all other bearings are compared.

For decades, industry's leading producers have depended on our roller bearings to handle their conveyance and power transmission needs. Did you know that Baldor•Dodge developed the original Type E bearing in the 1940's? Throughout the years, its reputation for reliability has remained, and from that innovation and engineering a complete family of roller bearings has evolved. Today, our bearings offer innovative designs; a wide range of shaft attachment methods, rolling elements, housings, and seal choices; patented features; and consistent performance.



### Type E-XTRA® Tapered Roller Bearings

- Tapered rolling elements
- Completely assembled, factory adjusted, and properly lubricated – shaft ready
- Extra protection – E-TECT seal option
- Comparable mounting dimensions with ball bearings
- E-XTRA allows easy upgrade from ball bearings



### Type K Tapered Roller Bearings

- Tapered roller bearing with reduced length through bore
- Single collar design saves space and installation time
- Allows bearing to be closer to the load for reduced shaft design
- Self aligning
- Factory assembled, adjusted, and lubricated – shaft ready
- Dimensionally interchangeable with DOUBLE INTERLOCK
- Extra protection-E-TECT Seal Option



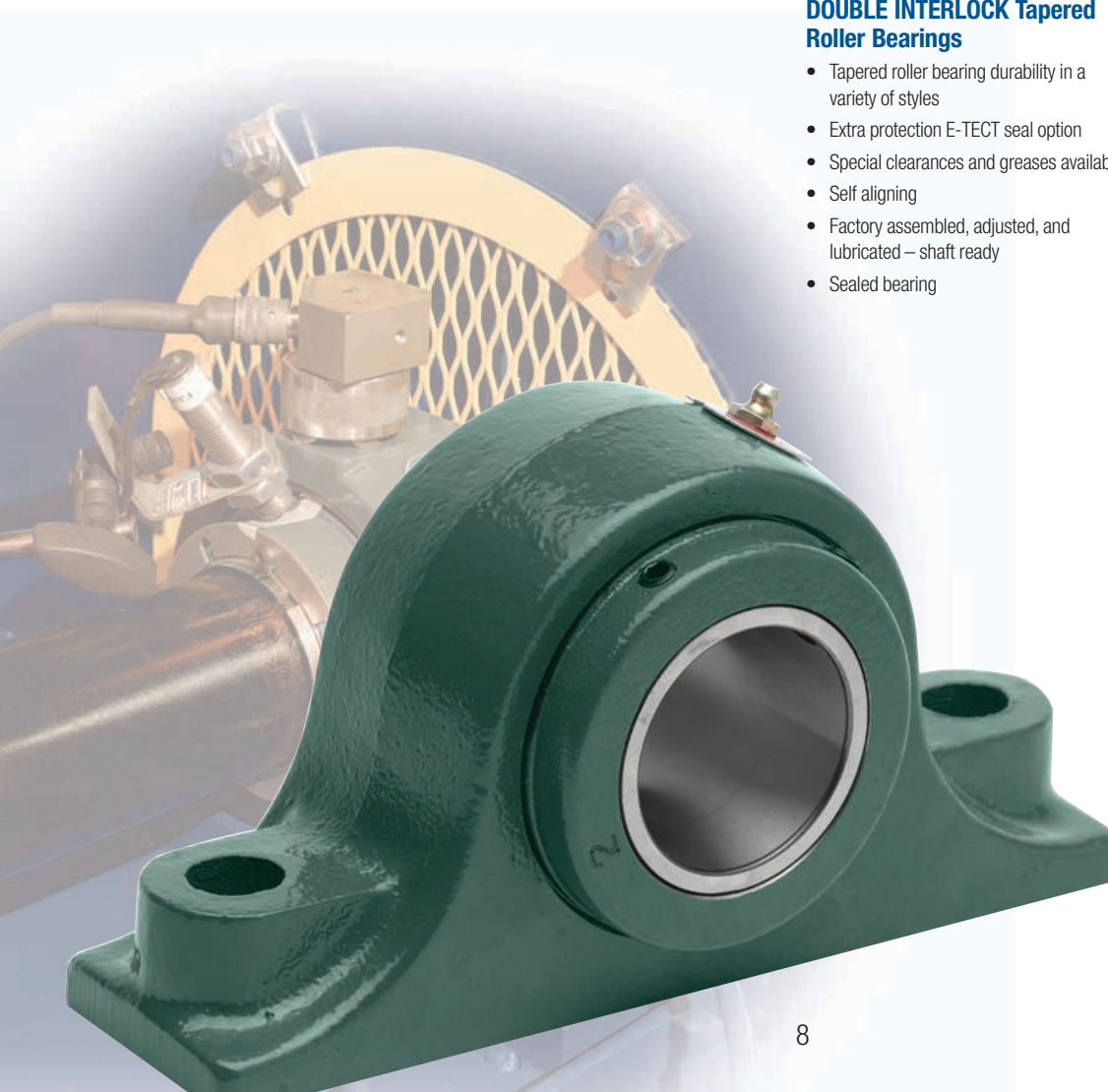
### DOUBLE INTERLOCK Tapered Roller Bearings

- Tapered roller bearing durability in a variety of styles
- Extra protection E-TECT seal option
- Special clearances and greases available
- Self aligning
- Factory assembled, adjusted, and lubricated – shaft ready
- Sealed bearing



### TAF Tapered Roller Bearings

- Tapered bearing is a cost-saving alternative to SAF spherical bearings
- Shaft ready – mounts six times faster than SAF
- Interchangeable with SAF style pillow blocks
- Self aligning, factory assembled, adjusted, and lubricated – shaft ready
- E-TECT seal option available up to 7"
- Optional sensors for speed, vibration, and temperature
- Up to 5° static misalignment



### Baldor•Dodge Roller Bearing Key Industry Applications

- AGGREGATE / CEMENT
- MINING / METALS
- AIR HANDLING
- FOREST / PAPER PRODUCTS
- POWER GENERATION
- WATER / WASTE WATER
- SUGAR





### S-2000 Spherical Roller Bearings

- High-capacity, double-row spherical rollers
- Permits static or dynamic misalignment of  $\pm 1^\circ$
- Factory sealed, lubed, and adjusted
- Available with TRIDENT triple lip and labyrinth seal options
- Springlok collar mount with  $65^\circ$  setscrew spacing for optimum clamping force
- Available in Type E dimensions and steel housings

### UNISPHERE® II Spherical Roller Bearings

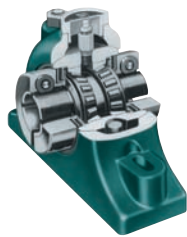
- Comparable mounting dimensions with ball bearings
- Approximately five times the rating of ball bearings
- Features same rolling elements and installation-ready components as S-2000
- Maintains sealing effectiveness with proven "R" seal
- Tapered seal area maintains seal contact during maximum misalignment
- Springlok collar mount with  $65^\circ$  setscrew spacing for optimum clamping force

### IMPERIAL IP Spherical Roller Bearings

- Industry's only push/pull adapter mount system
- Available in 2-bolt and 4-bolt pillow blocks, flanges, and take-ups
- Accepts commercial tolerance shafting
- Full concentric shaft attachment with adaptor sleeve mount
- Virtually eliminates fretting corrosion
- Capable of withstanding static or dynamic misalignment of  $\pm 1^\circ$
- Shaft-ready out of the box
- Available with TRIDENT triple lip and labyrinth seal options
- Available in Type E dimensions and steel housings

### ISAF and ISAF Hydraulic Spherical Roller Bearings

- Dimensionally interchangeable with SAF style pillow blocks
- Patented IMPERIAL adapter mounting system
- Easy installation – no feeler gauges needed
- Available with TRIDENT triple lip and labyrinth seal options
- $\pm 1^\circ$  static or dynamic misalignment capability
- Virtually eliminates fretting corrosion
- Shaft-ready out of the box, no assembly of components necessary
- Now also available with integral, hydraulically- assisted mounting and dismounting, in sizes up to 15"



### Type C Specialty Tapered Bearings

- Two single-row tapered bearings press-fitted on sleeve
- Improved concentricity over other collar-mounted types of bearings
- Steel multiple labyrinth seals
- Rugged two-piece outer housing
- Positive concentric clamp sleeve mounting
- Heavy duty gray iron

### Special Duty Tapered Roller Bearings

- Quality duplex tapered roller bearing
- Tapered adapter sleeve mounting
- Effective piston ring seals
- Rugged two-piece housing
- Heavy duty gray iron

### USAF Spherical Roller Bearings

- 22200, 22300, 23000, 23100, and 23200 Series
- 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

### Split-Spher Spherical Roller Bearings

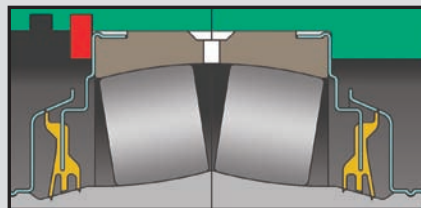
- Split-race spherical bearing fits USAF 500 housings and replaces bearing and adapter assemblies
- Easy to replace without removing other shaft-mounted components
- Only split-race bearing made to standard SAF pillow block dimensions
- Has same OD dimensions as a standard spherical bearing
- Uses 22200 Series split roller bearings

## ADVANCEMENTS THAT LOWER YOUR TOTAL COST OF OWNERSHIP

### PATENTED SEALING SYSTEMS

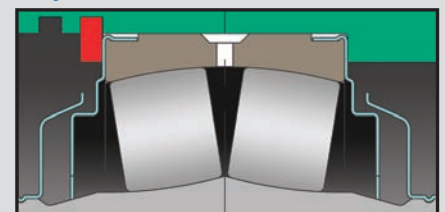
An ineffective seal can allow contaminants to enter into a bearing, which can cause failure. However, with IMPERIAL bearing inserts, you get two exclusive seals for maximum sealing protection.

### TRIDENT Seals



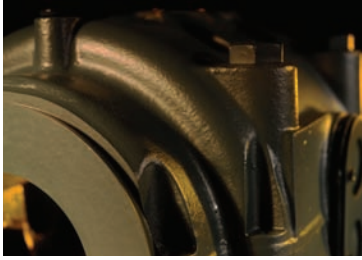
For dirty environments, low-to-medium speeds, and normal ambient conditions, these inserts feature our proven TRIDENT seal. Made of nitrile material, this triple-lip rubbing seal assures a low coefficient of friction, and its seal land maintains full seal contact when misaligned.

### Labyrinth Seals



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

# PLUMMER BLOCKS & JOURNAL



Baldor•Dodge offers a wide variety of plummer and sleeve bearings that are uniquely engineered to provide reliable performance – even in the harshest environments. Ideal for mining, air handling, unit handling, high temperature, and food & beverage applications, they feature patented technologies that reduce maintenance and ensure long service life.

Numerous designs allow you to select the best bearing style for any application – from a simple SOLIDLUBE® bearing to a SLEEVOIL® hydrodynamic externally cooled bearing.

In addition, our accessories, and circulating oil systems extend your value. Housings may be drilled and tapped to accept temperature, vibration and speed monitoring devices.



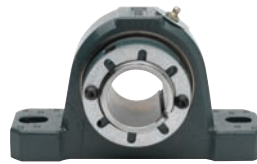
### HFO Plummer Block Bearings

- Plummer block housings with oil ring lubrication
- Used with 22200, 22300, 22200K, and 22300K Series spherical roller bearings
- Available with labyrinth seals and end covers
- Material: gray cast iron or ductile iron



### SNX Plummer Blocks

- ISO-conformant plummer block interchangeable with metric SNL, SNV, SNA, and other SN products
- Housed and sealed, general purpose, high-capacity, double-row, spherical roller bearings
- Adapter and direct mount
- Five different sealing options to match most operating conditions
- Grease or oil capable
- Also available in SDX, SNF and SSND housings



### ISN Spherical Roller Bearings

- Industry's only push/pull adapter mount system
- Available in two-bolt pillow blocks
- Accepts commercial shaft tolerances
- Installation and removal in fewer than 15 minutes
- Fully concentric shaft attachment with adaptor sleeve mount
- Virtually eliminates fretting corrosion
- Capable of withstanding static or dynamic misalignment of  $\pm 1^\circ$
- Shaft-ready out of the box
- Available with TRIDENT triple lip or labyrinth seal options
- Sizes range from 30mm through 125mm; 1-1/8" through 5"



### PDFN & BLO A

- Solid housings incorporate two bearing seats
- Misalignment is virtually eliminated
- PDFN Series is grease lubricated
- BLO A Series is oil lubricated
- BLO A Series is designed for heavy duty service
- Material: gray cast iron or ductile iron



### Baldor•Dodge Plummer & Sleeve Key Industry Applications

- MINING / METALS
- AIR HANDLING
- CEMENT
- WOOD PRODUCTS
- AGGREGATE
- FOOD / BEVERAGE / PHARMACEUTICAL
- SUGAR
- POWER GENERATION

# BEARINGS



## SOLIDLUBE® Sleeve Bearings

- Functions in harsh environments where ball bearing will not
- Self-lubricating, statically self aligning
- Covers a wide range of temperature extremes
  - 700 Series: -40°F to 700°F
  - 1000 Series: -200°F to -40°F and 250°F to 1000°F
- Housing types: 2-bolt pillow blocks, 4-bolt and 2-bolt flange units, and take-up units
- Ideal where bearings are subject to dry cycles or where lube systems would be too costly
- Bore sizes 3/4" to 8"



## Babbitted & Bronze Bushed Bearings

- Good for 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 bearing features fully split housing
- Bronze bushing is split and easily replaced



## BRONZOIL®

- Feeds oil to shaft with self-oiling bushing
- Sleeve bearings with 2-piece pressed steel housing
- Statically self aligning
- Features bushing shoulder that provides self-lubricating bearing thrust face
- Designed with slotted bolt holes
- Available with oil-resistant rubber grommets for sound isolation and static electricity protection
- Housing types: 2-bolt pillow block and 4-bolt flange
- Bore sizes 1/2" to 1-1/4"



## SLEEVOIL® RTL Series Hydrodynamic Pillow Block Bearings

- Extended life (no metal-to-metal contact during operation)
- Handles high speeds
- Dampens vibration, provides quiet operation
- Fully split for ease of maintenance
- Self aligning
- Three times the thrust load capability of R Series SLEEVOIL
- External cooling (air, water, or oil) available for hot shafts or high temperatures



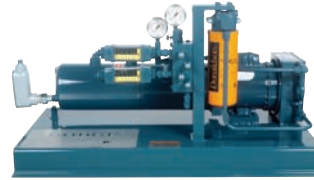
## SLEEVOIL R Series Hydrodynamic Pillow Block Bearings

- Extended life (no metal-to-metal contact during operation)
- Handles high speeds
- Dampens vibration, provides quiet operation
- Fully split for ease of maintenance
- Self aligning
- Thrust capability
- External cooling (air, water, or oil) available for hot shafts



## SLEEVOIL® Oil Level & Filtration System (OLF)

- 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



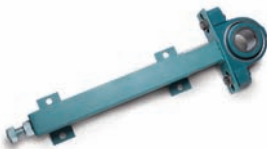
## Cool Lube System

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



## Polymer Sleeve Bearings

- 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
- Polymer sleeve insert with stainless steel anti-rotation pin
- 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 to 180°F
- 3/4" - 1-15/16" bore size



## Take-Up Frames

- 6 take-up frame types available from stock
- Standard take-up frame travel from 1-1/2" to 60"
- Take-up frames allow for the mounting of Baldor•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



# DRIVE COMPONENTS



For decades, Baldor•Dodge power transmission products have advanced the standards in industry – affecting and improving the way the world transfers power. Essential elements of power transmission are Baldor•Dodge mechanical drive components: V-belt drives, synchronous drives, and roller chain drives. These rugged products not only connect one driven shaft to another, but they isolate shock load and vibration, correct minor misalignment, synchronize movement between shafts, and offer energy efficiency.



### Bushings

- Full line of TAPER-LOCK® and QD available
- Stock sizes available up to 12" shaft diameter
- Material: sintered steel, cast iron, ductile iron, steel and stainless steel
- Easy installation and demounting
- Inch and metric bores
- GRIP TIGHT®



### Weld-On Hubs

- Full line of TAPER-LOCK and QD available
- Steel material with rugged, compact designs
- Hubs to accommodate most bushing sizes
- Made-to-order capabilities – special construction and materials



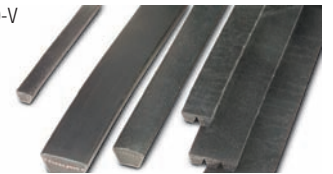
### V-Belt Sheaves

- Full line of TAPER-LOCK and QD available
- Classical (A, B, and C) and D-V Wedge style (3V, 5V, and 8V) groove profiles
- Stock sizes from one to 12 grooves and 1.5" to 71" in diameter
- Manufactured to MPTA standards
- Made-to-order capabilities – material, construction, BTS, etc.
- Computer drive selection available



### V-Belts

- Full range of Classical (A, B, and C) and D-V Wedge (3V, 5V, and 8V) belts
- Manufactured to RMA standards
- Polyband, Double-V (hex), and FHP belts available
- Lengths from 22" to 660"
- Drive capability from 1 HP to over 1000 HP



### Baldor•Dodge Drive Components Key Industry Applications

- UNIT HANDLING
- FOREST & PAPER
- FOOD & BEVERAGE
- AIR HANDLING
- MINING
- FLUID HANDLING
- PETRO / CHEM
- AGGREGATE
- CEMENT
- SUGAR



### Synchronous Belt Drives

- Full line of TAPER-LOCK®, QD, and minimum plain bore sprockets
- Higher capacity drives
- Available pitches: 5 mm, 8 mm, and 14 mm
- Made-to-order sprocket capabilities: construction, non-standard number of teeth, etc.
- Various tooth profiles available
- Computer drive selection available

### Roller Chain Drives

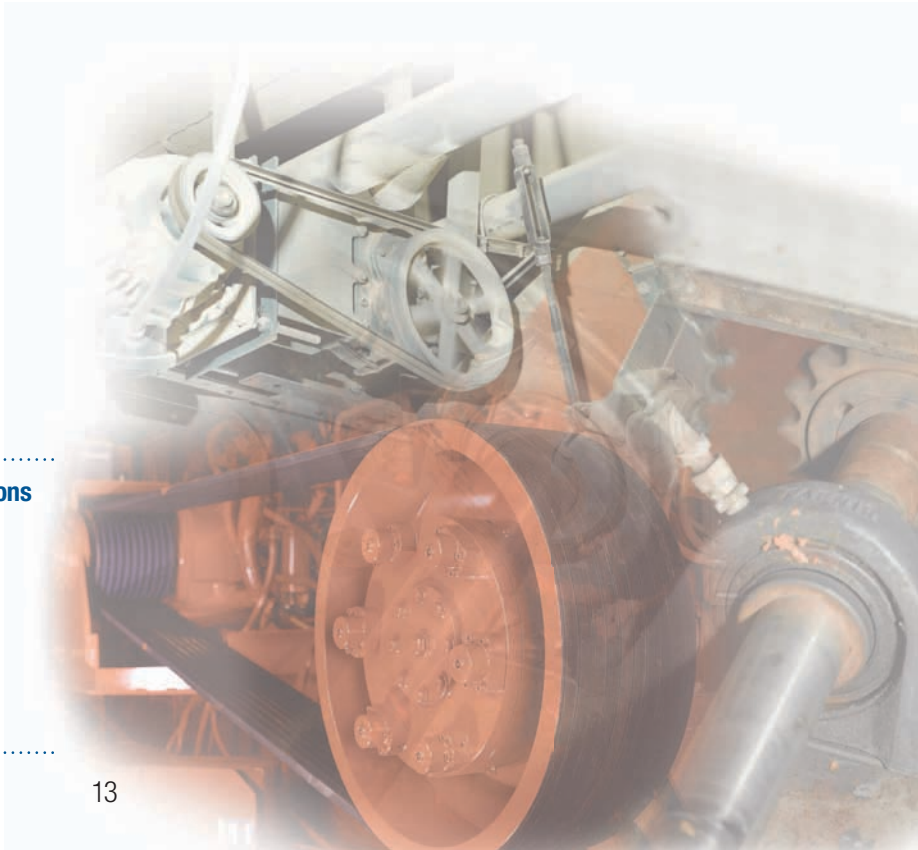
- Sprockets manufactured to ANSI standard
- TAPER-LOCK sprockets: #35 (3/8" pitch) to #160 (2" pitch)
- Double-strand, double-single, and reborable sprockets also available
- Special machining and rebore capabilities available through MTO
- Accessories available: idlers, tensioners, etc.
- Hardened teeth up to 25 teeth on #40 through #160 sprockets
- Chain tools available

### FHP Belt Drives

- Full range of FHP belts available
- Finished-bore and "QT" bushed style sheaves available
- "QT" bushings available in metric bores
- Cast iron and manufactured to MPTA standards
- Sheave outside diameter range: 1-1/2" to 19-3/4"
- Variable pitch sheaves available
- Computer drive selection available

### Baldor•Dodge Drive Components Key Industry Applications

- UNIT HANDLING
- FOREST & PAPER
- FOOD & BEVERAGE
- AIR HANDLING
- MINING
- FLUID HANDLING
- PETRO / CHEM
- AGGREGATE
- CEMENT
- SUGAR





# COUPLINGS, CLUTCHES, BRAKES



Baldor•Dodge offers a wide variety of coupling designs, types and sizes to suit your application needs. Uniquely engineered to increase bore size, improve torque capacity, speed installation, reduce maintenance, and lower your total cost of ownership,

Baldor•Dodge elastomeric and metallic couplings can withstand the toughest applications and processes – performing reliably and efficiently long after other couplings have failed.

Continuing our tradition of developing products that improve the performance and efficiency of your operation, Baldor•Dodge is also proud to offer our D-Series Brakes and Clutch/Brake modules.



## PARA-FLEX®

- Industry leading misalignment (4° Angular, 1/8" Parallel & 5/16" End Float)
- G-Series flanges offer higher torque and larger bore size; available in finished bore, TAPER-LOCK®, and GRIP TIGHT® styles.
- Elements available in Natural Rubber, Neoprene & Cordless
- Fast installation on misaligned shafts
- Accommodates up to 8" shafts and 453,000 in. lbs.



## GRID-LIGN®

- Available as a close coupling or spacer coupling
- Flexible tapered grid isolates vibrations and cushions shock loads
- Accommodates up to 13" bore and 1,650,665 in. lbs.



## D-FLEX®

- Available in Type J, S, B and SC spacer flanges
- Sleeves available in EPDM, Neoprene & Hytrel
- AGMA 9 balance for Type S and SC flanges
- Setscrews at 65° apart offers 10% greater holding force on shaft
- Accommodates up to 6" shafts and 72,480 in. lbs.



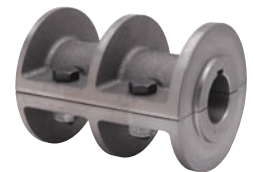
## GEAR

- Power dense coupling
- Interchangeable with industry standard gear couplings
- Accommodates up to 12-1/4" bores and 1,008,400 in. lbs.



## TAPER-LOCK® RIGID

- 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

- Rated load capacities of 1018 Shafting
- Connects same diameter shafts via compression fit clamping
- Accommodates up to 7" bores and 404,000 in. lbs.



## POLY-DISC®

- Polyurethane flexible disc resists chemical attack
- Allows 2° of angular misalignment & cushions shock loads
- Accommodates up to 3-1/4" bores and 10,900 in. lbs.



# & SOFT STARTS



## FLUID (Coupling)

- Mechanical Soft Start via oil fill
- Available in standard and delay fill
- Available in Drive style (Sheave) & Coupling (PARA-FLEX® & Gear)
- Accommodates up to 4.75" bores and 1400 HP applications.



## TORQUE-TAMER®

- Cost effective mechanical overload clutch
- Available with many sizes of sprockets
- Accommodates up to 3" bores and 11,500 in. lbs.



## FLEXIDYNE®

- 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



## PARA-FLEX® FLYWHEEL

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



## MOTOR BRAKES

- Available with Fan End and Shaft Out (Double C-Face) mounting
- Housing enclosure: Standard Drip Proof and E-Z KLEEN® (NEMA 4X)
- Available for NEMA 56C, 140TC, and 180TC



## SHAFT & FLANGE MOUNTED CLUTCHES AND BRAKES

- Clutches accept standard sheaves, sprockets and gears
- Can be mounted on standard motor or thru shafts
- Accommodates up to 1-11/16" bores and 175 lb-ft.



## FRACTIONAL HP CLUTCHES & BRAKES

- Clutches available as couplings or with sheave/sprocket mount
- Brakes available as both 'Power On' and 'Power Off'
- Accommodates up to 1" bores and 250 in. lbs.



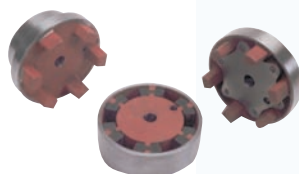
## CLUTCH/BRAKE MODULES

- Available in clutch only, brake only, brake only (less output shaft) and clutch & brake
- Available with double C-face mounting, or shaft-in (Base mounted)
- Available for NEMA 56C, 140TC, 180TC and 210TC motors



## CHAIN

- 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



## POWERPLUS

- Power dense elastomeric coupling
- Low cost, low maintenance and fast installation alternative to grid and gear couplings
- Accommodates up to 5.71" bores and 146,926 in. lbs.

## Baldor•Dodge Couplings & Clutch Brake Key Industry Applications

- PUMPING
- MINING / METALS
- AGGREGATE / CEMENT
- PETRO / CHEM
- FOOD
- FOREST / PAPER PRODUCTS
- HVAC / INDUSTRIAL AIR HANDLING
- UNIT / BAGGAGE HANDLING
- POWER GENERATION
- SUGAR

# CONVEYOR COMPONENTS



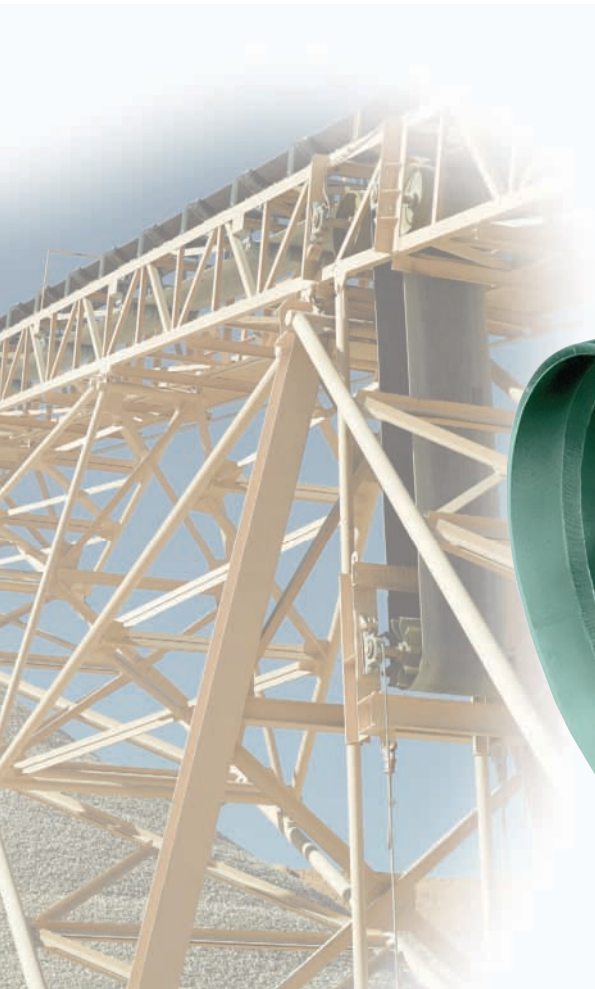
With a worldwide reputation for reliability and quality, Baldor•Dodge offers a complete line of pulleys and pulley assemblies, as well as complementary power transmission products. We offer a variety of pulley types, styles, and different options – from CEMA standard to large, highly engineered pulleys – plus complete pulley assembly packages made from the best components in the business.

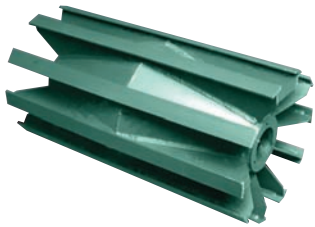
Equally important, however, is that our commitment to our customers goes beyond selling just conveyor components. We are the only source who can provide you with complete conveyance solutions to lower the total cost of operation. We have the capabilities and the expertise to help you select the pulley and/or assembly that works best with your specific application.

Combine that with our manufacturing flexibility, state-of-the-art processes, and large inventory, and you have a source who can help you increase efficiency, improve output, and promote profitability.

## Heavy Duty Drum Pulley Assemblies

- Standard, stock pulley assemblies fit CEMA dimensions and exceed the CEMA application standards for use with conveyor belts rated up to 750 PIW/131 kN/m
- 14° HE taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Up to 1" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 durometer Neoprene rubber lagged with plain and grooved surfaces
- Baldor•Dodge exclusive "D-Lag" – vulcanized 60 Durometer lagging with 73% more abrasion resistance than standard 60 Durometer SBR
- Crowned or straight face





### Heavy Duty Wing Pulley Assemblies

- Standard, stock pulley assemblies fit CEMA dimensions and exceed the CEMA application standards for use with conveyor belts rated up to 350 PIW/61 kN/m
- 14° HE taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Slide-on 92 durometer urethane wing lagging or 1/2" thick or 45, 60, and 70 durometer SBR, vulcanized directly to contact bars. Also weld-on strips with 45 and 60 durometer with prebonded SBR rubber lagging
- Baldor•Dodge exclusive "D-Lag" – vulcanized 60 Durometer lagging with 73% more abrasion resistance than standard 60 Durometer SBR

### Lagging

- Vulcanized
- Cold Bond
- SBR 45, 60 & 75
- D-LAG™
- Neoprene
- Ceramic
- Holz

### Additional Products & Services

- Shafting
- Spiral Wings and Drums
- Magnetic Drums
- MAG Particle, Ultrasonic, Dye Penetrant Testing
- Stress Relieving
- Line Boring



### MINE DUTY Drum & Wing Pulley Assemblies

- For applications exceeding 350 PIW or 61 kN/m
- Designed & built for long life cycle in harsh applications in the mining and aggregate industry.
- Welded hub design

### Mine Duty Wing

- Designed for the more demanding applications in the crushed stone industry
- Incorporates heavy contact bars and wing design.
- Available with HE bushing system
- Welded hub design

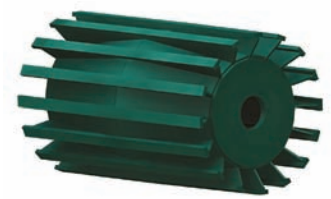
### HE Bushing System

- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Thickest flange for two hub pulley applications
- Large diameter bolts for two hub pulley applications
- Most bolts compared to existing bushing systems
- Readily available from stock



### MINE DUTY EXTRA Drum Pulley Assemblies

- All Mine Duty EXTRA pulley assemblies fit CEMA dimensions and greatly exceed the CEMA application standards
- One-piece integral hubs eliminate welded hub heat-affected zones (HAZ)
- Up to 1" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 durometer Neoprene rubber lagged with plain and groove surfaces
- Crowned or straight face
- Designed with the Baldor•Dodge exclusive HE bushing system



### MINE DUTY EXTRA Wing Pulley Assemblies

- Designed for use with Baldor•Dodge Mine Duty EXTRA drum pulleys
- One-piece integral hubs eliminate welded hub heat-affected zones (HAZ)
- Rugged construction incorporating 3/4" x 2" thick contact bars and 3/8" thick wings
- Up to 1/2" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 Neoprene rubber lagging on contact bars
- Designed with the Baldor•Dodge exclusive HE bushing system
- AR400 contact bars available upon request



### Engineered Drum Pulley Assemblies

- Made to order based upon conveyor load, belt tension, belt wrap angles, and bearing centers
- Supplied for belt ratings up to and exceeding 8000 PIW or 1400 kN/m
- Welded hub, integral hub, turbine and T-section end disc designs
- 14° HE taper bushings for applications up to 12" diameter
- Keyless locking devices for shafts up to 30" diameter



### Baldor•Dodge Conveyor Components Key Industry Applications

- MINING / METALS
- AGGREGATE / CEMENT
- GRAIN
- GENERAL BULK MATERIAL HANDLING
- SUGAR
- POWER GENERATION
- FOREST PRODUCTS



# TORQUE-ARM™ & TORQUE-ARM™



The Baldor•Dodge TORQUE-ARM II™ surpasses all other reducers on the market because of its industry proven design and patented features.

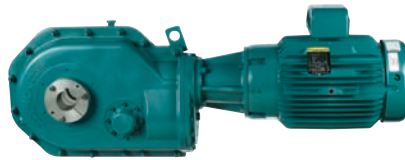
This powerful line of shaft mounted speed reducers – in 12 case sizes through 400 horsepower (HP) – offers unparalleled torque ratings and is quickly becoming the new industry standard. Improved features include: an all-new backstop concept, a patented sealing system, a steel motor mount system, a state-of-the-art, totally modular design

with an expanded ratio range to 40:1 and a patented twin tapered bushing system.

The increased ratings on the TORQUE-ARM II line are comparable to the next larger sized TXT reducer and are the result of the extended gear centers, wider gear faces and optimized tooth geometry. The new backstop design features centrifugal lift-off sprags for extended life and can be used with lubricants containing EP additives.

In addition, the TORQUE-ARM II line has a patented, premium sealing system that uses an HNBR oil seal protected by a metal excluder seal with rubbing lip. This harsh duty sealing system makes this reducer series a perfect fit for today's harsh duty industries such as aggregates, mining, cement, asphalt, mixing & milling and ethanol.

The new steel motor mount adjusts to multiple center distances and mounts in shaft mount and screw conveyor positions. Its patented twin tapered bushing system – in standard length, short shaft, and metric versions – offers all the features of our standard twin tapered TORQUE-ARM® bushing design which are unique to Baldor•Dodge. The patented insertable tapered wedge enables the optional extended tapered bushing kit to be applied for shorter shaft lengths; allowing the replacement of straight bore or single bushed reducers.



## Motorized TORQUE-ARM II™

### Heavy Duty Solution

- AGMA rated design offers longer life vs European DIN standards
- Premium HNBR oil seals with excluder seal technology
- Industry leading backstop design
- Straddle mount input pinion gives maximum torque throughput, no press-fit shank pinion
- Available in 3 Hp - 75 Hp based on output speeds
- 1-5/16" through 3-7/16" bushing bores

### Installed Cost Savings

- Reduced assembly time & guarding costs
- Optional metal or ABS bushing/end covers
- Reduced maintenance requirements

### Compact Flexible Drive Design

- Reducer mounts in multiple positions
- Two motor speeds and multiple gear ratios provide a wide spectrum of output speeds

### Uses Standard Stocked Accessories

- Standard and short shaft twin tapered bushings
- Industry leading backstop design
- Standard stock torque arm rod kit
- Standard Screw Conveyor Adapter and drive shaft
- Standard Baldor•Reliance NEMA® C-face motors
- Three-piece coupled design

### Easy Selection

- Part numbered product concept
- Easy Class I & II selection tables

### Proven Performance

- Rugged, high efficiency, case carburized helical/bevel gearing

### Easy to Order

- C-face gear-motor option is delivered with Baldor motor assembled to gearbox



## Baldor•Dodge TORQUE-ARM® & TORQUE-ARM II™ Key Industry Applications

- AGGREGATE / CEMENT
- MINING / METALS
- GRAIN/FOOD
- SUGAR
- POWER GENERATION



### TORQUE-ARM II™ Shaft Mount Reducers

- 12 reducer sizes with modular accessories
- All reducers can be shaft mounted, screw conveyor, vertical, and flange mounted
- Horsepower ratings through 400 HP
- Torque ratings through 500,000 lb-in
- Standard 5, 9, 15, 25, and up to 40:1 gear ratios
- Nearly 300:1 speed reduction with V-belt drives
- Twin-tapered bushing bores: 1" through 7", metric bore sizes available
- Highly efficient helical gearing
- Meets or exceeds AGMA standards, including Class 1 - 5000 hours L10 life and 25,000 average hour life
- Heavy duty HNBR lip seals for extended wear life and -40°F to +300°F
- Metal excluder shield sealing system with rubber contact lip
- Smooth, rugged Class 30 cast-iron housings with pry slots
- 36-month/18-month warranty protection
- 100% factory noise and leak tested



### TXT TORQUE-ARM® Shaft Mount Reducers

- Exclusive twin tapered bushings
- Rugged cast-iron efficient housing
- Precision, high-quality helical gearing
- Reliable anti-friction bearings and seals
- Efficient splash lubrication
- Meets/exceeds AGMA standards
- 100% factory noise and leak tested

#### Capabilities & Mounting

- Standard ratios: 5, 9, 15, and 25:1
- Ratios up to 210:1 with V-belts
- Fractional to 700 HP
- Output speeds through 400 RPM
- Flange mount and vertical shaft options
- Available with hydraulic motor input

#### Accessories

- Motor mounts
- Bushing assemblies
- Backstops
- Auxiliary seal kits
- Belt guards
- Cooling fans
- Harsh duty accessories



### SCXT Screw Conveyor Shaft Mount Reducers

- Industry standard, high quality, drive mounting
- Adapter conforms to any CEMA trough ends
- Sealing system alternatives in standard adapter
- Waste packing & braided felt seals
- Rugged, high-thrust roller bearings
- Conforms to CEMA standards
- CEMA high-strength shafts, 2- and 3-bolt

#### Capabilities

- Fractional to 75 HP
- Standard ratios: 5, 9, 15, and 25:1
- 1-1/2" to 3-7/16" CEMA drive shafts
- Output speeds through 400 RPM
- Available with hydraulic motor input
- Vertical and incline mounting capability

#### Accessories

- Standard C and AC adapters
- Drive shafts - standard and stainless steel
- Motor mounts
- Belt guards
- Auxiliary seal kits
- Cooling fans

## TA II Modular Concept

Shaft mounted reducer with twin-tapered bushing and motor mount



Screw conveyor drive with adapter, drive shaft and motor mount

- **Standard Twin-Tapered Bushing System** is an easy on, easy off, no-wobble bushing system featuring a fully split, ductile iron 8° taper and reliable twin support. Available in inch and metric bores. Increased bore capability in many sizes.
- **Short Shaft Twin-Tapered Bushing Kits** (Patent numbers 5,667,333 and 5,951,198) eliminate the need for full-length shafts. Constructed with ductile iron, it has all the features of our standard bushing system. Available in both inch and metric bores.



- **Modular Motor Mount** is attached and supported by two angle iron brackets with equally spaced holes, which align with the spacing of the cast slots of the gear case. This way, the motor mount can be adjusted up or down depending on the customer's requirements. It can also be mounted on the side of the reducer for screw conveyor applications.
- **Backstop** option helps prevent reverse rotation in high stop-start loads, and results in less wear and longer life. Its centrifugal throw-out design eliminates sprag sliding and reduces wear. It operates with standard and EP lubricants and requires no external lubrication.



### Modular Accessories

- **TA Rod Kit**, including standard brackets, functions as a belt-tensioning device, and offers universal mounting options.
- The **CEMA Bolt-On Adapter** features double-lip seals on both surfaces. The adapter center is open for contaminate drop out for optimized sealing.
- **Adjustable Packaging Adapter Kit** bolts to the standard adapter and provides a proven sealing option for hostile environments. Packing can be retightened.
- **Screw Conveyor Drive Shafts** are made from high alloy steel and engineered



to CEMA dimensions. They are three-bolt drilled and their tapered fit ensures simple installation. The rugged locking plate (patent pending) also provides a mechanical shaft removal feature.



- **Bolt-On Belt Guard Package** requires no drilling or straps. It allows multiple height adjustments, features a lift-off cover construction, and has an open metal inspection feature.
- **Other accessories include: cooling fans, v-ring flinger seal kits, TDNC bushing kits, and vertical breather kits.**



# TIGEAR-2®



Never before have greater advancements been made in speed reducer technology.

Our family of Baldor•Dodge TIGEAR-2® speed reducers is the only complete line of single-reduction, right-angle worm speed reducers specifically engineered with sealing and bushing system technology that can actually lower your total cost of ownership.

Nothing comes close to this technology because almost every component in each reducer is either new or dramatically improved from the previous design. Its gear geometry is optimized for 30% higher torque, greater efficiency, and cooler operating temperatures. Its sealing system has no pressure vent and no compression chamber. It comes with a factory-filled synthetic lubricant that needs no routine oil changes. Plus, by adding the Baldor•Dodge GRIP TIGHT® adapter, we have the industry's only tapered bushing system with easy-on, easy-off installation and removal.

In terms of greater cost savings, extended life, and maintenance-free operation, there's no competition.

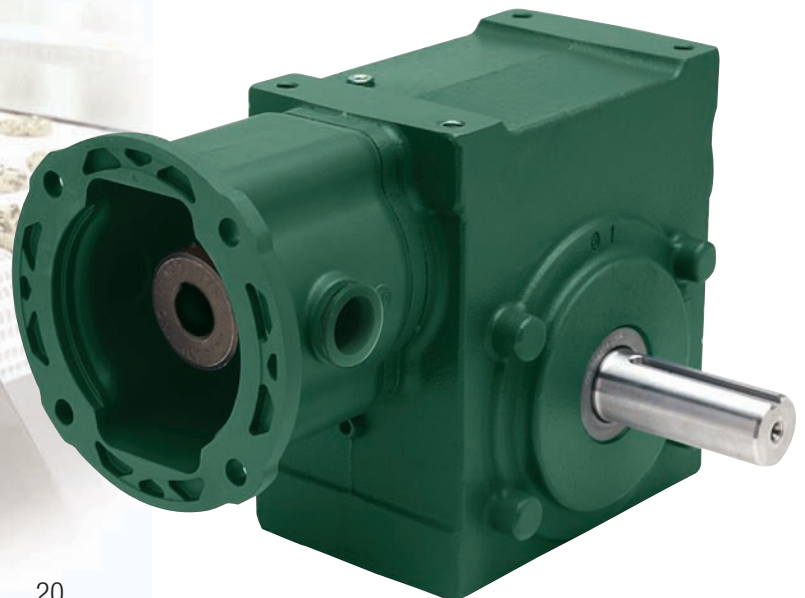


## TIGEAR-2® Speed Reducers

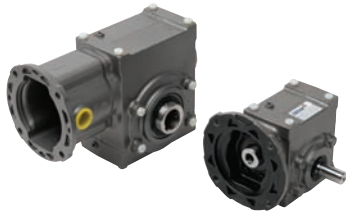
- Single-worm with quill, separate or 3-piece coupled input
- Totally enclosed, ventless design that is maintenance free
- 10 case sizes 1.33" to 4.75" center distances
- 5:1 to 60:1 reductions
- Higher torque ratings than competition
- Solid or hollow output
- GRIP TIGHT bushing system available
- E-Z KLEEN® & ULTRA KLEEN® stainless steel design available
- Cast iron construction that is durable and corrosion resistant
- Factory filled with synthetic lubricant

## Baldor•Dodge TIGEAR-2 Key Industry Applications

- FOOD & BEVERAGE
- UNIT HANDLING
- BAGGAGE HANDLING
- AUTOMOTIVE INDUSTRY
- PACKAGING
- CEMENT







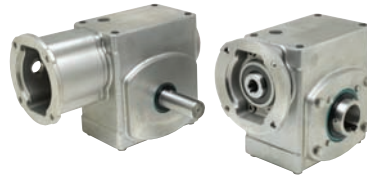
### E-Z KLEEN® Reducers Triple the Corrosion Resistance of Standard Epoxy-Painted Units

For maximum washdown protection, the Baldor•Dodge TIGEAR-2® reducer is also available in E-Z KLEEN® models with features never before offered in washdown reducers. These reducers are manufactured with a 13-step coating system that provides more than three times the corrosion resistance of standard epoxy-painted units. And, to ensure that their interior is as protected as their exterior, the Baldor•Dodge TIGEAR-2 E-Z KLEEN reducers have a two-piece, harsh-duty sealing system that protects against high-pressure sprays and sanitizing solutions. Other standard features include stainless steel solid or hollow output shafts and stainless hardware.

TIGEAR-2 E-Z KLEEN reducers are factory filled with an H1 food grade synthetic lubricant that never needs changing, and are available in sizes 13 – 35 with quill or three-piece coupled input, and solid or hollow output configurations.

#### WASHDOWN ACCESSORIES

- Stainless-steel GRIP TIGHT bushings
- Stainless steel straight bore bushings
- Bolt-on base kit
- Riser block kit
- J-mount base kit
- Output flange kit



### ULTRA KLEEN® Reducers

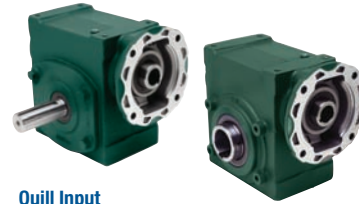
The best choice for a stainless steel reducer with ultimate washdown protection or where “paint free” specification is required.

#### STANDARD FEATURES INCLUDE:

- Premium 316 stainless steel housings
- Stainless steel solid and hollow output shafts and stainless hardware
- Two-piece harsh duty output seals
- Factory filled H1 food grade synthetic lubrication
- Available in sizes 17, 21, 23, 26 and 30 with quill or 3-piece coupled input and solid or hollow output configurations.
- Washdown Accessories include:
  - Stainless steel GRIP TIGHT bushings
  - Stainless steel straight bore bushings
  - Stainless steel bolt-on base kit
  - Stainless steel output flange kit

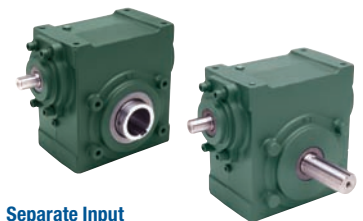
### CONFIGURATION OPTIONS

The advanced design concept of the TIGEAR-2 reducer product line provides extreme flexibility for applications that require from 100 to more than 6,500 lb-in of torque. Whether the application requires the compactness of a quill-style input, the durability of a three-piece coupled input, or a separate keyed input shaft for belt-driven equipment, TIGEAR-2 is the answer. With three basic reducer configurations that are dimensionally interchangeable with most competitive brands and bolt-on accessories, the TIGEAR-2 reducer line is truly a complete line that is full of value.



#### Quill Input

Space-saving quill-style input reducers are available for NEMA C-face motors in both solid and hollow output designs.



#### Separate Input

Separate style input reducers with solid or hollow output shafts are suitable for either belted or direct-coupled motor connections.



#### Three-Piece Coupled Input

Attaching a stock, three-piece coupled motor adapter kit to a separate style reducer creates a durable drive package that facilitates easy motor removal and provides protection against shock loads and other unpredictable vibrations.

### ADVANCEMENTS THAT LOWER YOUR TOTAL COST OF OWNERSHIP

#### BUSHING KIT

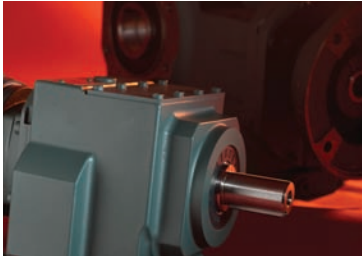
With the new easy on, easy off GRIP TIGHT® tapered bushing system, there are no loose fasteners to misplace during installation, and the locking nut creates a positive means for easy removal.



#### HELICAL ATTACHMENT

- Easily attaches to a TIGEAR-2® reducer with 56C and 140TC quill or 3-piece coupled input
- NEMA 56C or 140TC input and 56C or 140TC output
- Available in 4:1 and 5:1 ratios
- Factory filled with food grade synthetic oil
- Lubed for life
- No breather
- Suitable for all mounting positions right out of the box
- Rugged cast iron construction

# QUANTIS® – ILH/MSM/RHB



The Baldor•Dodge QUANTIS® product line offers a full line of modular gear drives engineered for flexibility, greater torque density in a compact housing configuration, and increased horsepower capability from 1/4 HP to 75 HP.

The QUANTIS family of products offers the customer three types of gear reducers: in-line helical (ILH), right angle helical bevel (RHB) and motorized shaft mount (MSM).

All three types of reducers are dimensionally interchangeable with major global competitors.

MSM – Motorized Shaft Mount

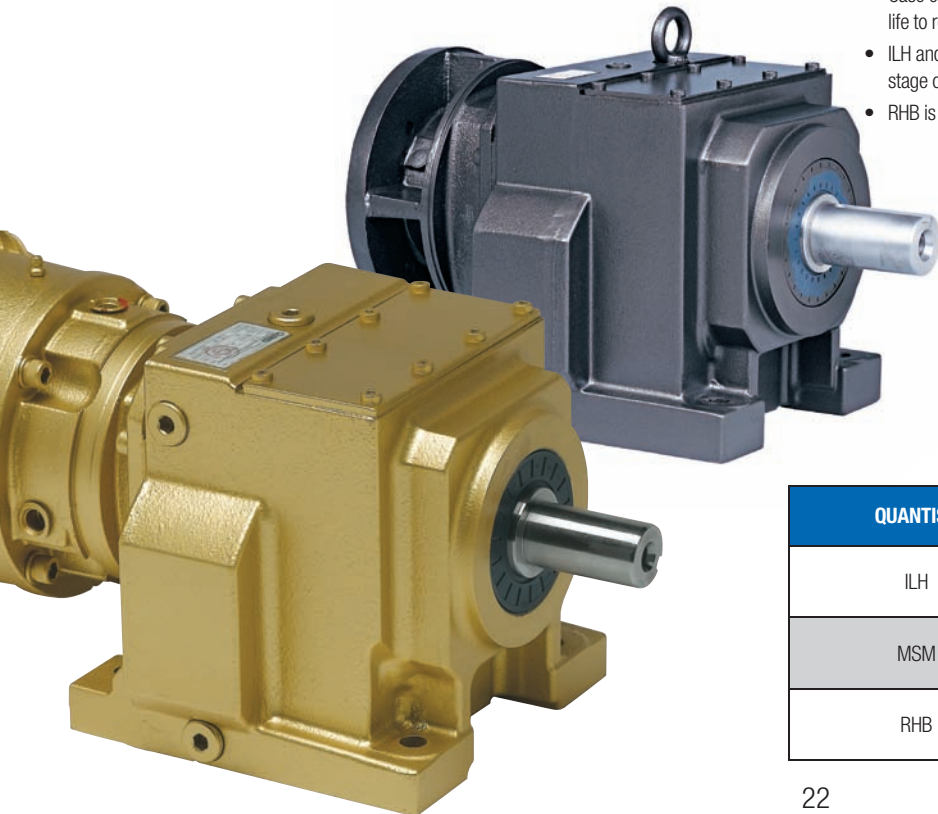


RHB – Right Angle Helical Bevel

ILH – In-Line Helical

## QUANTIS® ILH, MSM and RHB C-FACE REDUCERS / INTEGRAL GEARMOTORS – STANDARD AND OPTIONAL FEATURES

- Available in Right Angle Helical Bevel (RHB), In-Line Helical (ILH), and Motorized Shaft Mount (MSM) configurations.
- Eight sizes (38 through 168)
- Four input configurations including integral motor, c-face clamp collar, three piece coupled c-face motor adapter, and separate input shaft.
- Case carbonized gearing insures longer life to reduce unscheduled downtime.
- ILH and MSM are 98% efficient per stage of reduction
- RHB is 94% efficient
- Designed to achieve greater output torque ratings, increased horsepower ratings and expanded ratio range
- Two housing designs – foot mounted and flange mounted
- Multiple output shaft options in both inch and metric
- Factory filled with oil prior to shipment
- Integral motors – inverter duty, 10:1, constant torque
- Integral motors are IP55 enclosure



| QUANTIS® | SIZES        | OUTPUT TORQUE RANGE      |
|----------|--------------|--------------------------|
| ILH      | ILH 38 - 168 | 116 in-lb - 123914 in-lb |
| MSM      | MSM 38 - 168 | 712 in-lb - 118603 in-lb |
| RHB      | RHB 38 - 168 | 411 in-lb - 119556 in-lb |



### Input Modular Options

- Clamp Collar
  - NEMA 56C - 360TC
  - IEC 71D - 200D
- 3 Piece Coupled
  - NEMA 56C - 360TC
  - IEC 80D - 250D
- Integral Gearmotor
  - 1/4 HP - 10 HP
- Separate Input

### Output Options

- Solid output shafts
  - ILH, RHB, MSM
- Hollow bore
  - RHB, MSM
- Twin-tapered bushings
  - RHB, MSM
- Double shaft
  - RHB
- Shrink disk
  - RHB, MSM

### Baldor•Dodge QUANTIS® Key Industry Applications

- FOOD & BEVERAGE
- PACKAGE HANDLING
- FOREST / PAPER
- HVAC / INDUSTRIAL AIR HANDLING

## QUANTIS® Accessories

### STANDARD TWIN-TAPERED BUSHING KIT

An easy on, easy off, no wobble bushing system featuring a fully split, ductile iron 8-degree taper and reliable twin support. Available in inch and metric bores.



### SHORT SHAFT BUSHING KITS

Eliminate the need for full length shafts. Constructed with ductile iron, it has all the features of our standard bushing system. Available in both inch and metric bores.



### BACKSTOP OPTION

Helps prevent reverse rotation in high stop-start loads, and results in less wear and longer life. It's centrifugal throw out design eliminates sprag sliding and reduces wear. It operates with standard and EP lubricants and requires no external lubrication. For use with three piece coupling and separate inputs.



### XT-HARSH DUTY OUTPUT SEAL

The rubber coated nitrile output seal consists of 2 parts; the inner sleeve and outer sleeve. The vertical flange of the inner sleeve protects the lip from high pressure washdown spray and the outer sleeve holds the actual lip. Two additional dirt excluder lips help to fling dirt away and provide a labyrinth.



### CEMA ADJUSTABLE ADAPTER ASSEMBLY

The RHB & MSM screw conveyor adapter assembly is available with two options, standard and harsh duty. The standard option includes the adapter with bolts, two double lip seals and hardware. The harsh duty option includes the adapter with bolts, two double lip seals, packing retainer, three braided seals and hardware.



### CEMA SCREW CONVEYOR DRIVE SHAFT

Screw conveyor drive shafts are made from high alloy steel material, designed with three bolt holes and engineered to CEMA dimensions. The screw conveyor drive shaft connects to either the RHB or MSM straight hollow bore reducer with the keeper plate and bolt assembly.



### MSM RUBBER BUSHING KIT

For MSM Shaft Mounted Applications. The MSM rubber bushing is recommended to protect the unit from shock loads.



### 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.



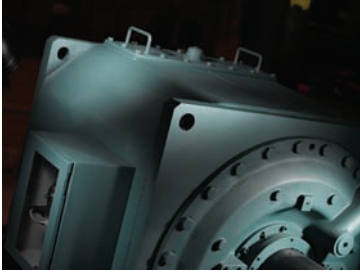
### ILH ADJUSTABLE SLIDE BASES

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.



| RATIO RANGE    | INPUT MOTOR POWER RANGE | MOTOR ADAPTERS                     |
|----------------|-------------------------|------------------------------------|
| 1.41:1 - 359:1 | 1/4 HP - 75 HP          | NEMA 56C - 360TC<br>IEC 71D - 250D |
| 6.65:1 - 350:1 | 1/4 HP - 75 HP          | NEMA 56C - 360TC<br>IEC 71D - 250D |
| 4.83:1 - 307:1 | 1/4 HP - 75 HP          | NEMA 56C - 360TC<br>IEC 71D - 250D |





With Baldor•Dodge CST® drives, you get consistent, controlled starts and stops regardless of varying load or ambient conditions. On long conveyors employing multiple drive systems, CST offers excellent load share, torque limiting characteristics, and maximum motor power availability throughout the controlled speed profile.



**System Features**

**Controlled Acceleration & 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**

**Power Grid**

- Minimizes voltage drops via sequenced motor starts where multiple drives are utilized
- kW demand reduced by unloaded motor starts

**Motor**

- No load starts
- Frequent motor starts eliminated
- Utilize up to breakdown torque of motor, when needed, without oversizing

**Gearing**

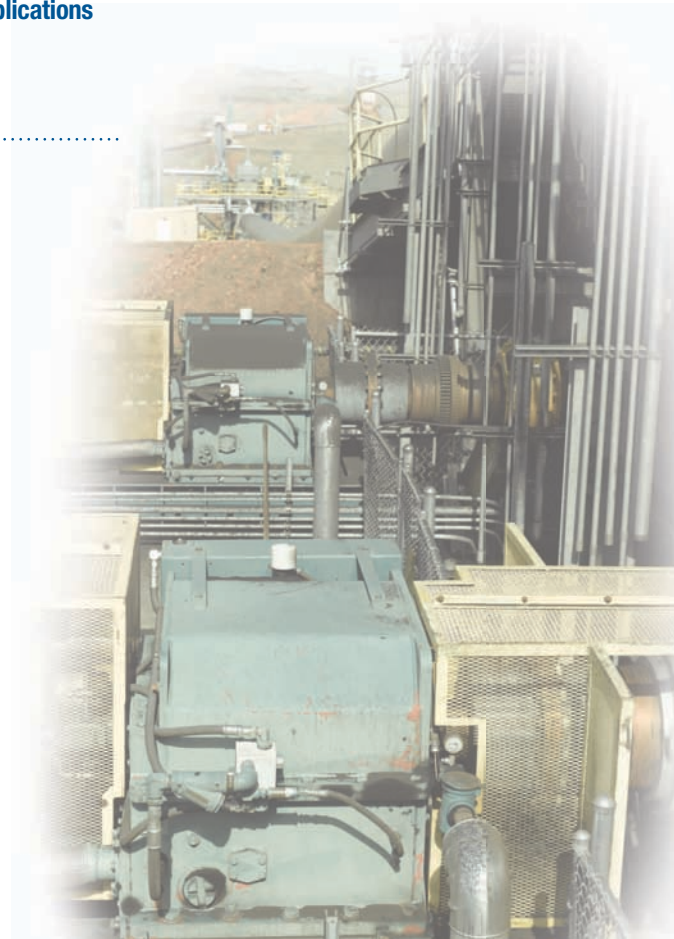
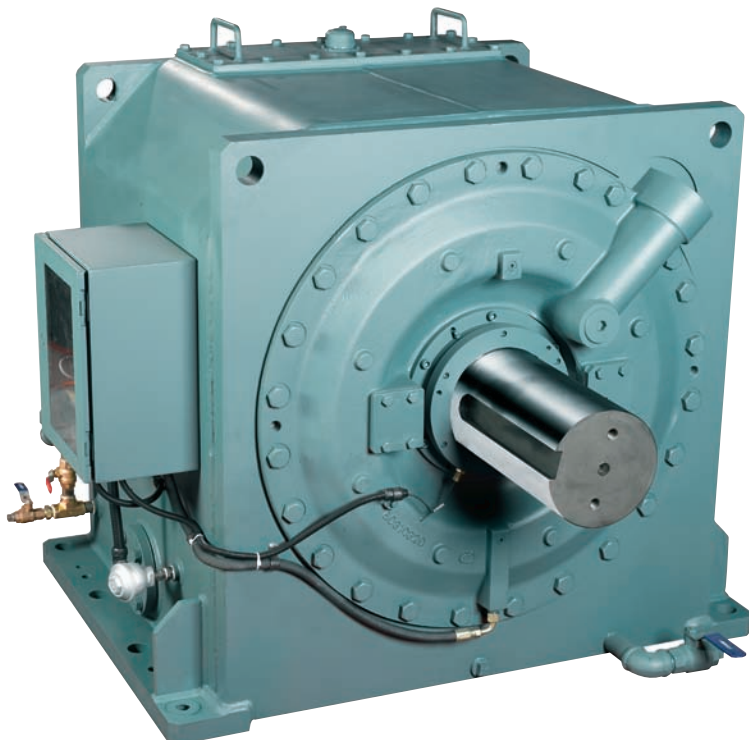
- Protected from shocks by clutch mechanism
- Efficient planetary design

**Conveyor Components**

- Hydro-viscous clutch located at output of the CST absorbs transient shocks
- Parabolic acceleration ramp minimizes belt and pulley stresses
- Complete Project Capabilities

**Baldor•Dodge CST Key Industry Applications**

- MINING
- AGGREGATE
- CEMENT



# CSB



## **Baldor•Dodge Controlled Stop Brake – CSB**

The Baldor•Dodge CSB is a heavy-duty, fast reaction, brake and retarding device for service when constant or repeated braking exceed the capabilities of conventional dry disk brake systems. The CSB design is based on the unsurpassed hydroviscous clutch technology utilized in the Baldor•Dodge CST® product line and provides continuous braking capacities exceeding 1,500,000 in-lb of torque. The CSB provides the most precise continuous control available for decelerating decline conveyors.

### **System Features**

- Rugged design to assure reliability in tough applications
- External cooling sized for continuous operation from zero to over 1,500,000 in-lbs of torque.
- Fail safe operation in the event of power loss
- Can be connected to a pulley shaft as a stand-alone brake
- Can be connected between reducer and pulley
- Can be used as a backup device to prevent overloads on regenerative drives
- System includes condition monitoring for the CSB
- Control through simple PLC programming
- Sealing system designed for harsh conditions

### **System Benefits**

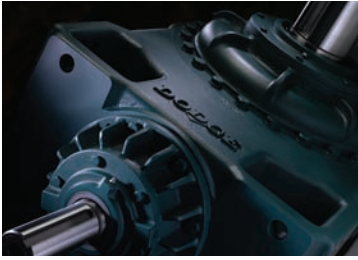
- Eliminates concerns with overheating of conventional brake system
- Allows unlimited starts and stops
- Precisely controlled deceleration ramps
- Can be packaged with base and couplings
- Provides the exact amount of braking required for any point in time
- Hydro-viscous clutch located at output of the CST absorbs transient shocks
- Parabolic acceleration ramp minimizes belt and pulley stresses
- Complete Project Capabilities

### **Baldor•Dodge CSB Key Industry Applications**

- MINING
- AGGREGATE
- CEMENT



# MAGNA GEAR XTR<sup>®</sup>



The MagnaGear XTR™ reducer is manufactured to provide maximum reliability in tough applications and to improve your total cost of ownership. The innovative design incorporates state of the art technology to meet the high standards expected of Baldor•Dodge reducers. MagnaGear XTR provides the perfect solution for your high torque application needs.



## Versatile Performance

- Parallel shaft or right angle configurations are available
- Torque capacities from 100,000 in-lb to 920,000 in-lb
- Available in solid or hollow shaft output
- Global product design to fit all markets
- Modular design for reversibility and multiple mounting configurations
  - Minimizes spare requirements
  - 4-sided mounting configurations
- Can be used with a variety of soft start mechanisms including VFD and fluid couplings
- Multiple mounting configurations are available
  - Base mounting
  - Swing base mounting
  - Tunnel housings

## Rugged Design

- Designed to meet or exceed AGMA and international standards
- Gearing is carburized, hardened, and precision ground
- Tandem HNBR lip seals are standard for extra protection
- All bearings exceed AGMA standards for L10 life
- Versatile cast iron housings

## Design Considerations

- Focus on rugged, heavy duty design for maximum reliability
- Power dense design
- Components are power matched for optimum performance at a lower installed cost
- Proven planetary design is utilized in sizes over 390,000 in-lb to provide a compact, durable, light weight, economic solution for high torque applications
- Proven premium sealing system

## Engineered Accessories

A complete line of engineered accessories including:

- Internal lift-off style backstops
- Shaft fans
- Electric fans
- Moment couplings
- Swing base mounts
- Torque arms
- Tunnel drive alignment free configurations
- Baseplates



## Baldor•Dodge MagnaGearXTR Key Industry Applications

- MINING
- AGGREGATE / CEMENT
- GRAIN HANDLING
- POWER GENERATION
- SUGAR
- PAPER & FOREST PRODUCTS



# MAXUM®



The Baldor•Dodge MAXUM® concentric reducer is a rugged, compact design that generates dependable performance in less space. The housings are made of high strength ductile and cast iron which is necessary for industrial applications. The reducers overhung load capability is also optimized for total system value.

## MAXUM Concentric Speed Reducers

- Compact, power-dense design
- Precision-machined, cast-iron and ductile iron housings
- Highly efficient AGMA-rated helical gearing
- Heavy duty tapered roller bearing design meets or exceeds AGMA standards
- Metallic double-lip seals – input/output
- Full line of accessories available

### Features

- 8 sizes
- Fractional to 1600 HP
- Ratios: 2.25 to 194.6
- Up to 502,000 (in-lb) torque
- Mounting flexibility
- Direct coupled
- Top mount
- Scoop mount
- Heavy duty base plate

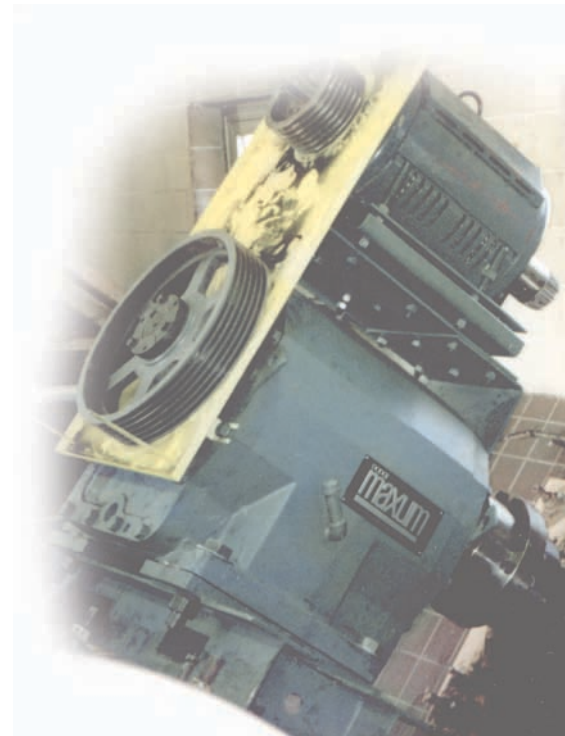
### Accessories

- Backstops
- Slide base
- Cooling fans
- Auxiliary seal kits
- Heat exchanger cooling package
- XT filter breather
- XT enclosed breather
- Coupling and belt guards
- Oil sight gauge

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## Baldor•Dodge MAXUM Key Industry Applications

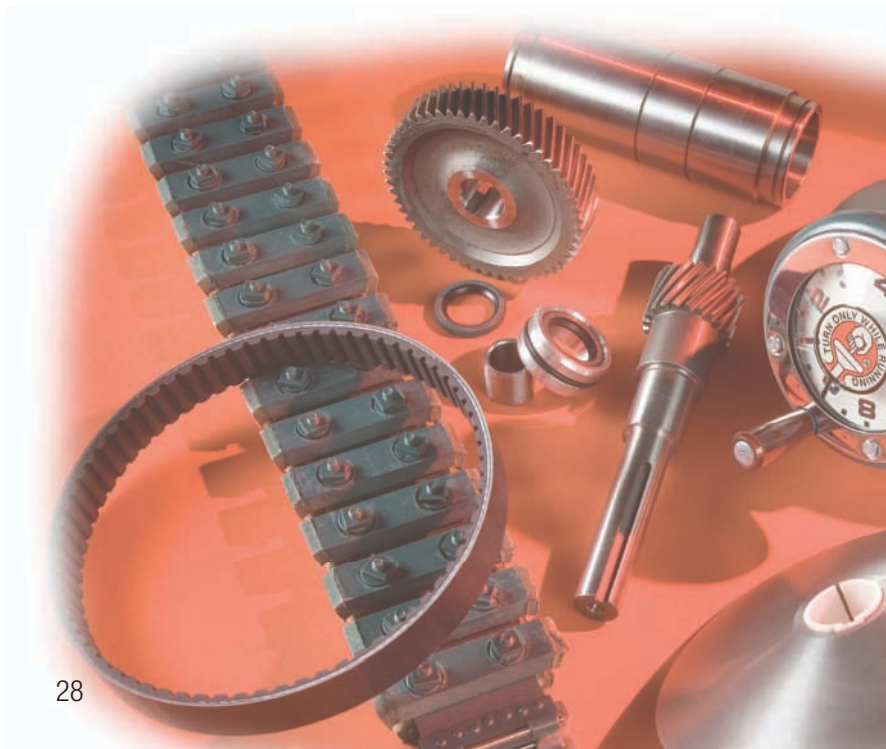
- MINING
  - AGGREGATE / CEMENT
  - POWER GENERATION
  - SUGAR
- 



# RENEWAL PARTS



Having an effective and sound maintenance program that ensures minimal downtime depends on the ready availability and easy accessibility of quality renewal parts, as well as the knowledge and experience of a value-added support team. For genuine Baldor•Dodge renewal parts and support that's ready when you are, talk with your local authorized distributor; or log onto [PTplace.com](http://PTplace.com).



# CUSTOM CLASSICS



Custom Classics are popular Baldor•Dodge products that are no longer mass-produced, but may be available from stock or on a made-to-order basis.

Although newer technology exists, there are many reasons you may wish to continue using the products that have served you so well in the past. The Custom Classics program makes it possible for you to continue to use these proven performers until you are ready to upgrade. Custom Classics are made to the specification of the original product equipment, so they fit where the original unit did. Using the same components as the original, Custom Classics are manufactured and completely tested in an ISO 9002 certified facility.

## Products supported by the Custom Classics Program

- MASTER XL
- Baldor•Dodge APG
- Baldor•Dodge Combination TIGEAR
- REEVES Adjustable Speed Pulleys
- REEVES ULTIMA
- REEVES MOTODRIVE

## ADVANTAGES OF CUSTOM CLASSICS PRODUCTS

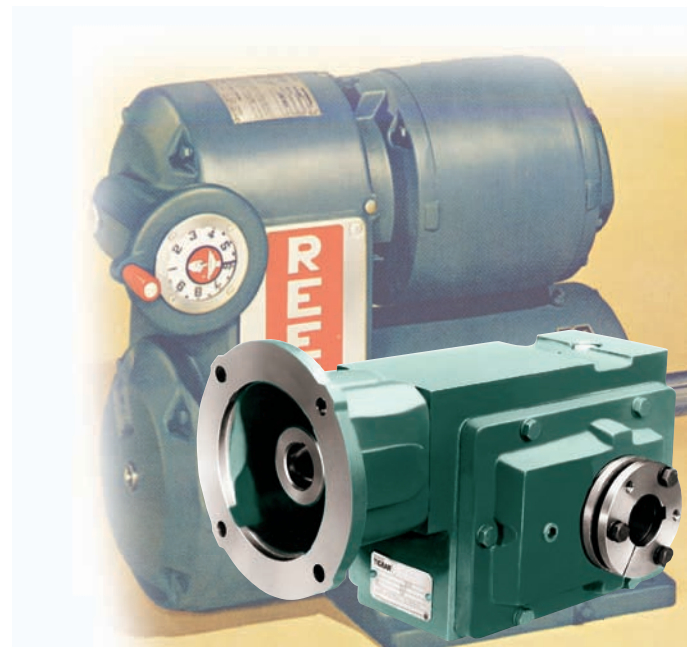
Newer technology offers increased reliability and functionality, enhanced ease-of-use, and greater efficiency and economy. However, there are situations where continuing with existing Baldor•Dodge products and technology makes sense.

For instance:

- Custom Classics eliminate the high cost of equipment redesign or process modification to incorporate newer technology.
- The need to retrain operators and maintenance personnel is deferred until you are ready to change.
- All documentation remains the same, even part and model numbers.
- You can continue to utilize your spare parts inventory, and eliminate restocking costs.
- Custom Classics satisfy your need for new or replacement units. Whether one unit or multiple units for process expansion.

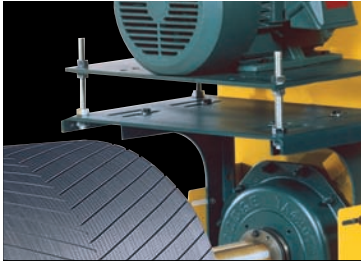
## For more information

Please contact your local Baldor•Dodge Authorized Distributor, Baldor•Dodge Sales Office, or visit our web sites at [www.pt-place.com](http://www.pt-place.com).





# SYSTEM-1™



System-1 offers an integrated single source for all your mechanical and electrical power transmission needs featuring Baldor•Reliance and Baldor•Dodge products. System-1 can optimize your equipment performance and reliability, reduce overall costs, assist in coordinating multi-product projects, and ultimately improve your company's profitability.

Think of how much time and money your company spends in designing, selecting, and sourcing all the Power Transmission components of a drive system. Rather than calling multiple vendors, ordering mismatched components, coordinating multiple shipments from various vendors, and paying multiple bills, just contact

System-1 for your next package opportunity. We are the industry's proven single source provider for innovative drive system solutions.

- Unmatched quality
- Optimized product selection
- Single point of contact
- Pre-assembled package

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## One System • One Source • One Solution

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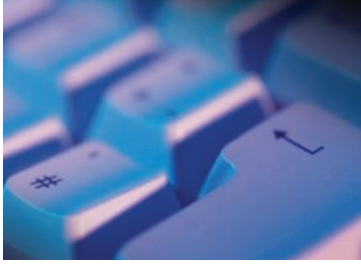
### System-1 Key Industry Applications

- AGGREGATE / CEMENT
  - MINING / METALS
  - FOOD / BEVERAGE / PHARMACEUTICAL
  - POWER GENERATION
  - SUGAR
- .....



# E-COMMERCE

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E-Commerce is the electronic exchange of goods and services, typically via the Internet.

For years, Baldor•Dodge has been a technological leader in the automation industry. We continue that leadership today, utilizing the latest e-Commerce technologies to conduct business with our valued customers. This allows them to become more efficient and lower their overall operating costs.

We offer a variety of e-Commerce solutions and can help you determine which method is right for your company. Overviews of Electronic Data Interchange (EDI), a direct System-to-System interface, and our online store, PTplace.com, are all provided here. There is also a comparison chart and a listing of our e-commerce contacts.

In addition to these solutions, we provide customers the ability to create custom configurations for Baldor•Dodge QUANTIS gear reducers online via PTplace.com. The Industrial Product Configurator allows customers to provide inputs and receive a customized product solution that meets their specific requirements.





ADDITIONAL OFFERINGS

# BALDOR'S INDUSTRY SOLUTIONS





# TEAM

Now more than ever, it's essential that your operation run smoothly and efficiently. Every process is critical to your success, and it's imperative that the electrical and mechanical power transmission products you specify perform reliably – at maximum efficiency – around the clock. With Baldor, you have one dependable source for industry expertise and a complete line of product solutions.

We offer a full line of field-proven, performance driven, energy efficient equipment specifically designed for your industry. From high performance servo motors and drives to heavy duty motors, mechanical power transmission products, including bearings and gearing products, and generators, Baldor•Reliance and Baldor•Dodge products can help you with your application.

Baldor is dedicated to meeting our customers' needs for proven industry expertise, problem-solving products, and strong sales support. Our engineering, technical, and field support personnel are trained and experienced in our focus industries. We target select industries and concentrate on their specific needs, ensuring that our products and services help our customers lower their total cost of ownership and maximize their uptime and output.



# The First Name in Power Transmission



**BALDOR • DODGE®**

Baldor-Dodge power transmission products offer reliable service and low maintenance to help reduce your total cost of ownership. Our innovative bearings, gearing and power transmission products have solved the toughest applications for over 125 years.

Our technical sales team can help you with the most challenging applications, and our worldwide distributor network ensures immediate delivery.

When it comes to PT solutions, Baldor-Dodge is the first name in power transmission.

[dodge-pt.com](http://dodge-pt.com) [baldor.com](http://baldor.com)

- Unmatched Quality
- Superior Reliability
- Improved Uptime
- Quick Delivery

**BALDOR®**







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