

# Aggregate Industry



# The Industry's Most Preferred

As the need for sand, stone, and gravel materials increases throughout the world, aggregate producers are faced with the challenge of supply and demand. Now more than ever, it is imperative that your operation run efficiently and smoothly in order for you to remain competitive and profitable.

Baldor Electric Company offers a full line of performance aggregate and crusher duty motors, variable speed drives, heavy-duty speed reducers, bearings, pulleys and drive components. Products engineered with industry-driven designs and patented technology that ensure greater uptime with less maintenance. With our in-depth understanding of your application needs, our Baldor•Reliance and Dodge products provide high value, feature rich, rugged, reliable solutions specifically designed for long-lasting service in the most severe industrial environments.



**BALDOR • RELIANCE**



Aggregate Process	Products						
	Extra Tough Motors	Shaft Mounted Gearing	Concentric, Parallel & Helical Gearing	Spherical Roller Bearings	Couplings & PT Components	Variable Speed Drives	Generators
Aggregate Mining	x			x	x	x	x
Crushing	x	x	x	x	x	x	x
Conveying	x	x	x	x	x	x	x
Screening	x	x	x	x	x	x	x
Blending	x	x	x	x	x	x	x
Water Management	x	x	x	x	x	x	x
Load Out	x	x	x	x	x	x	x

$$V_p = \frac{Q_p \times S_p}{C \times T}$$

**V = Value**      **Q = Quality**      **S = Service**  
**C = Cost**        **T = Time**        **P = Perceived**

The Value Formula illustrates the importance of Quality, Service, Cost and Time in shaping our customers' perception of Value.

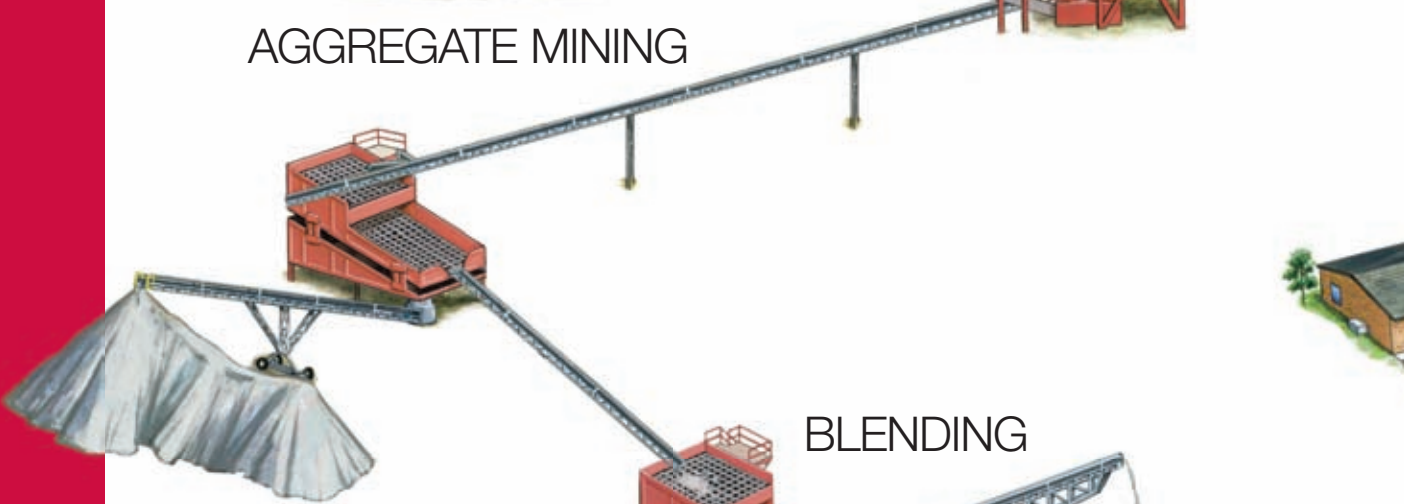


# Typical Aggregate OPERATION

CRUSHING



AGGREGATE MINING



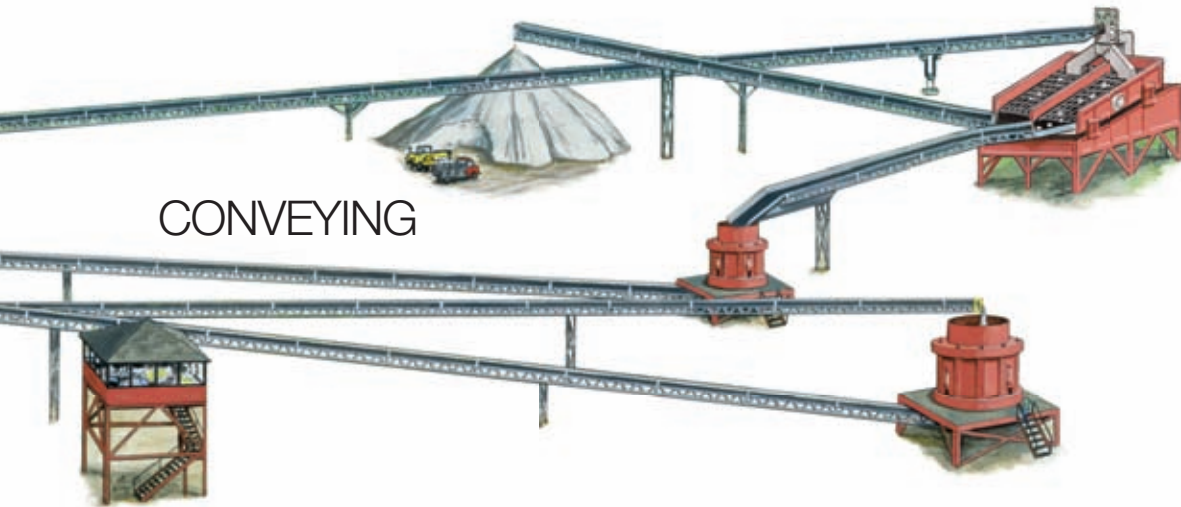
BLENDING



# WATER MANAGEMENT



# SCREENING



# CONVEYING



# LOAD OUT



## Premium Efficient Motors

- NEMA Premium® or higher efficiencies
- Single and three Phase
- 1/4 hp through 500 hp
- Enclosures: TEFC, TENV, ODP
- Foot and face mount
- NEMA and IEC low and medium voltage
- Explosion Proof motors
- Brake motors



## Severe Duty Motors

- TEFC and TENV - Super-E® – XT/XEX – 841XL – 661XL
- 1/3 - 500 hp, IEEE: 1/2 - 250 hp
  - Cast iron frames
  - Inverter capable on specified models
  - Standard, EPAAct, NEMA Premium® efficiencies
  - IEEE 841 – Inpro/Seal® on fan and drive end shafts
  - 1 through 250 hp stock; to 500 hp custom
  - Quarry Duty Motors with Design C Torque



## Large AC Motors

- 250 through 15,000 hp
- NEMA or IEC specifications
- 460 through 13,800 volts
- API 541 or 547 available
- Anti-friction or sleeve bearings
- Through 1,500 hp stock



## Adjustable Speed Drives

- Inverter, Encoderless Vector, Vector Drive and AC Servo available
- 230 volt, 3/4 through 60 hp
- 460 volt, 3/4 through 1000 hp
- 575, volt 3/4 through 150 hp
- Graphical operator display
- PID Process control loop
- Ethernet connection option



## QUANTIS® ILH, MSM and RHB C-Face Reducers/Integral Gearmotors

- 8 sizes
- Fractional to 75 hp
- Ratios: 1.41 to 359.30
- Up to 123,914 (lb-in) torque
- Mounting flexibility
- Direct coupled



## TORQUE-ARM™ II Shaft Mount Reducers

- 12 new 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"
- Highly efficient helical gearing
- Meets or exceeds AGMA standards, including 5,000 hours L10 life and 25,000 average hour life
- New heavy duty lip seals for extended wear life, -40° to + 300° F
- 100% factory noise and leak tested
- New metal shield sealing system with excluder lip



## Magnagear XTR

- Parallel shaft or right angle configurations available
- Torque capacities from 285,000 to 920,000 lb-in
- Global product design to fit all markets
- Multiple mounting configurations available (Base Mounting, Swing Base Mounting, Tunnel Housings)



## 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  $\pm 1^\circ$
- Installation and removal in less than 15 minutes



## Grip Tight® Ball Bearings

- Normal duty GT and medium duty GTM
- Single-lip contact seal with flingers standard
- Interchangeable mounting dimensions
- 360° full shaft contact and concentricity
- Anti-rotation device prevents insert rotation
- Plus or minus 2° static misalignment



## 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



## S-2000 Mounted Spherical Roller Bearings

- Standard Trident Seal
- Labryinth seal option
- Easy installation features
- Extended life bearings
- Single snap ring movable for expansion



## TAF Bearing

- 1-7/16" through 7" pillow blocks
- Two and four-bolt bases
- Tapered rolling elements
- Tapped housing base with Grade 5 cap bolts for added strength
- Match numbers on cap and base joint simplify assembly
- Pry slots allow easy separation of the cap and base
- Solid cast iron feet increase strength
- Cast-in dimples locate drill holes for solid dowels



## Conveyor Components

- Pulley assemblies fit CEMA dimensions and exceed the CEMA application standards by three to five times
- One-piece integral hubs eliminate welded hub heat-affected zones (HAZ)
- 360° welding of internal center disc
- Up to 1" (1/2" on wing) 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
- Vulcanized 60 durometer D-Lag with 73% more abrasion resistance than 60 durometer SBR
- MDX® Wing pulleys designed for use with MDX Drum pulleys
- Rugged wing-on-drum construction incorporating 2" x 3/4" thick contact bars and 3/8" thick wings



## Drive Components

- Manufactured in North America using the highest quality materials and standards
- Designed for harsh environments
- Sheaves, synchronous sprockets, bushings and belts connect the driver and the driven components



## PARA-FLEX®, D-FLEX and GRID-LIGN® Couplings

- DODGE offers 10 different types of Elastomeric and Metallic couplings
- Torque ratings ranging up to 1,000,000 + lb-ins
- Bore sizes up to 12+ inches
- Shaft mounting available with clearance fit, interference fit, bushings (QD, TAPER-LOCK® and GRIP-TIGHT)
- Application specific couplings: spacer, flywheel, floating shaft, mill motor



## Towable Generators & Light Towers

- Ratings from 25 kVA to 400 kVA
- Available with or without trailer
- Diesel engines
- Mobile Light Towers
  - 6000 watts total
  - (4) 1000 watt halide bulbs
  - 30 foot telescoping mast



## Industrial Prime/ Standby Generators

- Diesel ratings from 20 kW to 2,000 kW
- LP and Natural Gas to 880 kW
- Engines include: GM®, John Deere®, Detroit®, Mitsubishi®
- Prime power, industrial standby, peak shaving



## Grinders

- Bench and tool grinders
- Industrial quality
- Continuous duty
- 6" through 14" wheels
- Pedestals and other accessories available



## System-1

- System-1 packages utilize Baldor, Dodge and Reliance products
- Optimized design and product selection of all Baldor products
- Competitive solutions with package pricing
- Pre-assembled packages for ease of installation
- Project coordination to final destination





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