Complete Application Assistance

Gundlach provides complete application assistance, test facilities, customer service and more. In fact, every Gundlach unit operating today is backed by our experienced engineering and service departments. Our engineers utilize fully-equipped test facilities to analyze your requirements, perform complete tests on your material samples, and provide you with a comprehensive results report. These tests are performed by an independent world leading testing service to provide complete and accurate information to ensure you’re selecting the best equipment for your application.

Parts Inventory

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Features

1. **Wide Base**—positions main bearings away from source of dirt and moisture.
2. **Main Bearings**—are self-aligning, anti-friction roller bearings.
3. **Alignment Assemblies**—maintain rolls in parallel position through full adjustment range. (not visible)
4. **Adjustment Assemblies**—are enclosed from dirt and moisture and allow for easy adjustment.
5. **Secondary Drives**—of heavy roller chain, encased and lubricated, provides maximum torque transmission between lower and upper drive shafts.
6. **Housing**—design provides quick accessibility to rolls for maintenance from front or back of crusher.
7. **Gearboxes**—uniform sizing requires the positive timing of crusher rolls provided by Gundlach’s patented gearboxes. These units maintain constant relationship of one roll to the other, regardless of position, and transmit full horsepower. All gears are hardened steel. Drive gears are mounted with taper-lock bushings. Idler gears are mounted on anti-friction bearings. A “splash” lubricated oil bath ensures reliable operation.
8. **Coupling Mounted Rolls**—facilitate quick and easy changing, cut downtime and serve as slingers to protect main bearings from water and dirt. Roll rigidity is increased.
9. **Upper Rolls**—chisel tooth with intermittent grab teeth design efficiently grabs the lumps and then pre-breaks and feeds material to lower rolls.
10. **Lower Rolls**—continuous tooth designed rolls grab the pre-crushed product of the upper rolls and reduces material to the final desired product size.
Crush to Precise Product. Size for Maximum Yield. It’s a Gundlach.

The First and Only Roll Crushers Able to Size Coal, Salts, Potash, Lime and Industrial Minerals in 3 Dimensions.

Single-Stage, Two-Roll Crusher and Two-Stage, Four-Roll Crusher Designs Available in Four Models

These roll crushers are available with Gundlach’s breakthrough 3-D crushing technology that includes intermeshing continuous tooth roll design and positive roll timing that delivers the industry’s best dimensional product control, fewer fines and elimination of oversized material. Gundlach’s roll crushers deliver higher quality cubical product, minimal fines and consistently repeatable performance for sizing coal, coke, glass, fertilizer, salts, lime, limestone, clay, soft ores, friable materials and industrial minerals.

2000 Series Roll Crushers
- 330 mm to 380 mm diameter rolls (13” to 15”)
- Roll face up to 1525 mm (60”) wide
- For sizing materials with compressive strength up to 55 Mpa (8000 PSI)

3000 Series Roll Crushers
- 330 mm to 380 mm diameter rolls (13” to 15”)
- Roll face up to 2030 mm (80”) wide
- For sizing materials with compressive strength up to 83 Mpa (12,000 PSI)

4000 Series Roll Crushers
- 610 mm (24”) and 762 mm (30”) diametral rolls
- Roll face up to 2540 mm (100”) wide
- For sizing materials with compressive strength up to 124 Mpa (18,000 PSI)

5000 Series Roll Crushers
- 762 mm (30”) and 915 mm (36”) diameter rolls
- Roll face up to 3050 mm (120”) wide
- For sizing materials with compressive strength up to 152 Mpa (22,000 PSI)

Durable Gundlach Crushers with Ease of Maintenance Built In.

Crusher Roll Designs – The Heart of the Crusher
- Results are proven in wet, dry, hot, cold, sticky, hard and abrasive crushing applications ranging from run-of-mine material through fine sizing. Dozens of roll configurations are available to meet your crushing needs.

Shafts and Bearings
- Heat-treated, forged alloy steel, built to tolerate the extreme forces of crushing. Double-row, spherical roller bearings have an L-10 life of over 100,000 hours.

Main Drives
- Drive options include sheave or flywheel V-belt drives. One motor or two motor drive configurations are available.

Roll Adjustment/Tramp Relief Systems
- The optional Gundlach NITROL® Adjustment and Relief System allows operators to change the product size while the crusher is in operation and allows uncrushable as large as 250 mm (on some models) to pass. Other options include a Spring Tramp Relief System and Manual Screw Adjustment.

Enclosed Roll Timing Gearbox
- Engineered for ease of maintenance, the gearbox maintains timing on intermeshing teeth rolls for uniform sizing and the most cubical product of any crusher manufactured.

Housing and Base Frame
- Crusher housing is split into four - or eight-piece sections for easy removal and maintenance. Heavy structural steel plate with lifting lugs are provided for safe handling. Inlet and discharge connections are pre-drilled.

Secondary Drive Systems
- On Two-Stage Roll Crushers power is transmitted between stages by either a state-of-the-art cog belt or a heavy-duty roller chain.

Lubrication
- Standard Dual-Bulkhead Lubrication System groups all grease fittings in two convenient locations. Semi-automatic or fully automatic systems from a single grease source are also available as options.

Roll Removal Rails
- Roll Removal Rails are supplied for fast, easy roll change.

High Tonnage Operation with Maximum Control of Product Size
- Feeds up to 1200 mm; Product sizes to 6 mm
- Capacity up to 5400 mtph
- Roll diameter: 300 mm to 900 mm
- Roll length: 500 mm to 3000 mm
- Low horsepower per ton ratio reduces power consumption and operation costs
- Unique coupling mounted rolls and split-housing design makes roll replacement possible without disturbing drive components or chute work, resulting in easier maintenance
- Patented NITROL® Adjustment and Relief System allows changes of product output size during operation and allows uncrushables to pass

Feeders are available for 4000 and 5000 Series Crushers
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Intermeshing, continuous tooth roll design

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