

# TERRASOURCE™

G L O B A L





## About Us

TerraSource Global is passionate about providing the most innovative solutions for improved customer efficiencies. Our mission is to be the global partner today and tomorrow of industrial users of material handling and processing equipment by providing the best technology, quality and service for their specific project. We don't take this mission lightly.

We collaborate with our customers to understand their equipment and systems needs, project requirements, time frames and budgets. Then we create the best solution for achieving their goals. **We're solution providers.** We forge long-term partnerships with customers and are dedicated to their successful operations.

Along with that passion for innovation and excellence, we have engineering and manufacturing facilities in a variety of locations that provide only the highest quality industrial equipment.



Engineering is performed at our facilities in the USA (Belleville, IL; Broomall, PA; and Duncan, SC), Canada (Montreal, QC and Vancouver, BC) and Sweden (Stockholm). We have an extensive history of successful installations around the world, as well as a testing and applications laboratory in our Duncan, SC facility, ensuring that our equipment selections meet and exceed our customers' expectations.

Manufacturing is performed in the USA at our facilities in Belleville, IL and Cuyahoga Falls, OH; with a trusted global supply chain, we can react quickly to our customers' needs wherever they may be located.

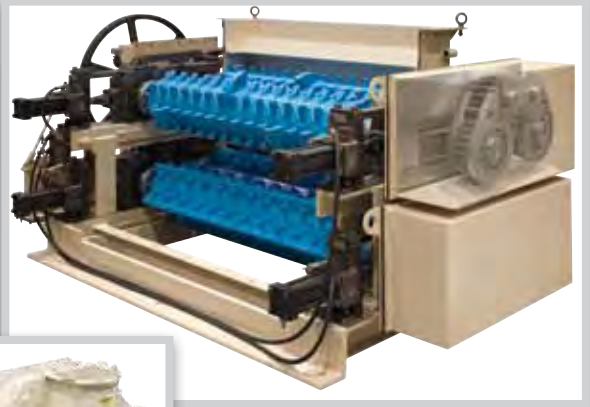
As the result of our continually expanding global reach and on-the-ground field service experts, we have become a trusted source of technical applications in a wide variety of situations and a reliable source of support for our base of current and new customers.

Additionally, as a subsidiary of Hillenbrand, Inc., we can offer supplemental products and support locations by combining efforts with our sister companies: Coperion, K-Tron and Rotex.

## About Our Brands

# GUNDLACH CRUSHERS

**Gundlach Crushers** designed its first single-stage, two-roll crusher in 1948, transforming the way coal mines size product to meet market demands. It was the first crusher that could economically break 50 mm coal to 19 mm pieces in a single pass. Another breakthrough Gundlach design, the first two-stage, four-roll crusher, marked the first time that a single crusher could take run-of-mine coal and crush it to 19 mm size.



Our Gundlach Crushers brand is best known for its single-stage, two-roll and two-stage, four-roll crushers, which crush coal both at the mine mouth and the preparation plant. Our roll crushers, cage mills and other equipment are used by coal-fired power stations, salt processing plants and fertilizer/potash manufacturing facilities throughout the world to crush coal and other minerals.

Today the Gundlach Crushers brand is a global leader in size reduction solutions and one that is changing the way crushing equipment is being used to meet customers' demanding requirements.



Our **Jeffrey Rader** brand includes material handling systems and equipment to unload, convey, screen and crush many different bulk materials such as wood chips and pellets, biomass, coal, alternative fuels and other recyclables.

The equipment includes crushers, wood hogs, pneumatic conveyors, rotary airlocks, screens, chain and screw reclaimers, as well as metering and storage bins and silos.



Jeffrey Specialty Equipment, who early in their development began diversifying with the addition of crushers and vibrating feeders, joined forces in 2009 with Rader Companies, Inc. In 1951, Rader developed one of the first pneumatic conveying systems for woody materials, revolutionizing bulk handling in the pulp and paper industry worldwide. Over the years they grew their product range to include screening and processing equipment, storage and reclaim systems and bulk material handling systems. Jeffrey can trace their roots all the way back to 1876, when they produced the first power-driven coal cutter used in the United States. Soon after, the company became an international leader, providing underground mechanical miners, locomotives, ram cars and power shovels.

Jeffrey and Rader, each with a long history of quality manufacturing and superior customer service, offer more than 150 years of technical experience in the design, engineering, application and manufacturing of industrial equipment and systems.

The united entity, rebranded as Jeffrey Rader, is now a global leader in material handling and size reduction equipment. Today you will find Jeffrey Rader equipment and systems installed throughout the world, providing reliable operation in the pulp and paper, coal and biomass power, aggregate, petro-chemical, forest products and mining industries.

## Pennsylvania Crusher



Our **Pennsylvania Crusher** brand includes impactors, granulators, hammermills, single roll crushers and sizers for coal and other minerals. These machines are available in a wide variety of sizes and configurations, each built-to-order to meet your specifications. Additionally, a positive displacement action feeder using unique and proprietary technology is also manufactured and distributed under the Pennsylvania Crusher brand name.



Pennsylvania Crusher, a pioneer in the design and manufacture of crushing machinery, was incorporated in 1905 for the purpose of manufacturing and marketing the inventions of founder George Willis Borton. His principal patent was the Borton Adjustable Cage Hammermill.

Since its inception, Pennsylvania Crusher has been solving the crushing problems of its customers with the most advanced technology, the highest quality machinery and unparalleled service. Today Pennsylvania Crusher brand machines crush 75% of all coal processed through power plants in the United States and are used for multiple material reduction and processing applications in 79 countries around the world.



## Why TerraSource Global Equipment?

TerraSource Global is the ultimate resource for material processing and handling equipment, uniting three market leaders whose brands are recognized and trusted around the globe.

- Products are used throughout the material reduction and feeding spectrum
- One stop for material sizing and feeding expertise
- Knowledgeable assistance in selecting the exact fit for your application
- Largest installed base in the industry
- Expert engineering services and application-matched auxiliary equipment support to fully integrate your process equipment needs

## Our Equipment Line Includes:

- Size reduction equipment
- Material handling equipment
- Storage and reclaim equipment
- Screening and processing equipment
- Pneumatic conveyors
- Feeders

TerraSource Global provides regional managers in the U.S. and Canada, international sales managers covering the globe and select manufacturers representative organizations for specific industries in defined territories.

During your initial contact, you will be asked about your raw material, including the type, moisture content and hardness, as well as your production requirements. Your sales representative will help you select the best equipment to meet your project's needs. To verify for you that the right solution has been selected, we can run your raw material through production machines located in our test facility.

To find your sales representative, download detailed equipment brochures or to learn more about our equipment and services, please visit our website at [www.TerraSource.com](http://www.TerraSource.com).

## GUNDLACH CRUSHERS

Single-Stage, Two-Roll Crushers  
Two-Stage, Four-Roll Crushers  
Cage-Paktor® Cage Mills  
Nanosiz-R® Roll Mills

High Tonnage Breakers  
Sample Crushers  
Feeder-Breaker Packages

## JEFFREY RADER™ UNITED STATES • CANADA • SWEDEN

Wood Hogs  
Pneumatic Conveyors  
Rader Disc Screens (RDS)  
DynaGage™ Bar Screens  
RaderWave™ Screens  
Screw Reclaimers & Conveyors  
Air Density Separator (ADS)  
Wood Chip Conditioners  
Truck Dumpers  
Chip-Sizer™ Rechippers

Chain and Stoker Reclaimers  
Hammermills  
EZ-Access™ Flextooth® Crushers  
Rock Busters  
Horizontal Impactors  
Sample Crushers  
Electromechanical Feeders  
Electromagnetic Feeders  
Shredders (Type E and Refuse)

## Pennsylvania Crusher

Hammermills (Single Direction)  
Hammermills (Reversing)  
Single Roll Crushers  
Impactors (Reversing)  
Granulators  
Sizers

Breakers  
Jaw Crushers  
Posimetric® Feeders  
Clinker Crushers  
Frozen Coal Crackers

### System Support

TerraSource Global also supports systems requirements. We specialize in the integration of proprietary equipment included in the Gundlach Crushers, Jeffrey Rader and Pennsylvania Crusher brands. We assist customers in our proprietary industries with systems engineering and supply to include process engineering, equipment layouts with structural supports, controls and instrumentation, as well as supply of auxiliary equipment necessary to complete the process equipment train. Our staff includes engineers with project experience in the power, mining, mineral and forest products industries.



## **OEM Parts**

TerraSource Global has the parts you need to keep your Gundlach Crushers, Jeffrey Rader and Pennsylvania Crusher equipment operating and performing at optimum levels. All of our parts are manufactured to the highest industry standards and built to the original equipment design. Options on material of construction and designs are available to optimize your equipment as your needs change. If you are unsure of what's required, please call us and we will have one of our engineers work with you to determine which options are available and best suited for your application.

TerraSource Global has expanded our global parts distribution warehouses and can provide your parts needs around the globe.

Our history is long, so over the years we have integrated other legacy brands into TerraSource Global. Please contact us if you need support for the following brands: BMH Wood Technology, Celcotec, Consilium-Babcock, KVS Crushers, Miller Hofftt and Retec.

## **Rebuilds**

TerraSource Global can rebuild your Gundlach Crushers, Jeffrey Rader and Pennsylvania Crusher equipment to new condition, extending its useful life and return on investment. If your process or material has changed, we will review those changes with you and update the machine accordingly. Each machine is re-serialized, allowing us to keep our records up to date and better serve you. Call or email us today for a machine evaluation and ask us to show you how to get more out of your older equipment.

## **Service**

TerraSource Global's highly trained service department is ready to assist our global customers with their Gundlach Crushers, Jeffrey Rader or Pennsylvania Crusher equipment. Whether you need a check-up or full field service support, our service team is ready to assist you. Contact us at any of our office locations for assistance.

We understand that your equipment is critical to your operation. Keeping your equipment operational is our highest priority. Tell us how we can help.

## Manufacturing Capabilities

Every day more than 280 TerraSource Global employees are working hands-on in our manufacturing and service locations worldwide to produce our proprietary machines, as well as wear and spare parts to meet the individual customer requirements for TerraSource Global equipment and systems.

TerraSource Global manufacturing focuses particularly on the production of key components critical to technology and quality. Other items of supply are provided from qualified suppliers who are subjected to regular quality checks and on-time performance monitoring. With this proven flexibility, we can optimize our schedule of deliveries around the globe at competitive costs.



### **Belleville, IL Manufacturing Facility**

54,000 sq. ft. facility providing fully-integrated fabrication, robotic welding, machining and assembly operations



### **Cuyahoga Falls, OH Manufacturing Facility**

76,000 sq. ft. facility providing fully-integrated fabrication, welding, machining and assembly operations



## Global Inventory Management

TerraSource Global maintains a significant inventory of parts for our clients' equipment ready for fast delivery. By positioning our inventory in strategic locations around the world, we can better manage the immediate demands of the industries we serve. We support our clients from nine locations on three continents, with aggressive growth strategies planned for South America and India in the future. We're continually expanding—visit our website often to learn about new locations.





## Locations

TerraSource Global has sales, engineering and service offices strategically located throughout the world. Please contact an office located near you or one of our sales representatives.

### **TerraSource Global Headquarters**

100 North Broadway, Suite 1600 • St. Louis, MO 63102 USA • [info@terrasource.com](mailto:info@terrasource.com)

## Global Locations

### UNITED STATES

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### RUSSIA

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Moscow Russia 127473

## Regional Sales Representatives

TerraSource Global has regional sales representatives in over 30 countries on six continents. For a directory of our representatives by region or industry, please go to [www.TerraSource.com](http://www.TerraSource.com).

# TERRASOURCE™ GLOBAL

Handling a World of Materials

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**GUNDLACH**  
CRUSHERS

**JEFFREY RADER**  
UNITED STATES • CANADA • SWEDEN

**Pennsylvania**  
Crusher 

