



MINING & MINERALS PROCESSING

The company's involvement in the mining and minerals processing markets began in its earliest days, driven by its proximity to numerous underground coal mines throughout western Pennsylvania, eastern Ohio and West Virginia.

Today, BVA continues to maintain a strong presence in the mining and minerals processing markets, with its castings being used in mining equipment throughout the world and in an array of applications, both on the surface and underground.

BVA supplies an assortment of steel and iron castings to the global mining and minerals processing markets, specializing in the following applications:

- ***Wear Parts & Abrasion Resistance***
- ***General Purpose & Replacement Parts***
- ***Fluid Transport & Corrosive Processes***
- ***Crusher Market – Hammers & Caps***



Market Expertise & Foundry Operations

Since our founding in 1919, BVA has built a diverse and flexible set of manufacturing capabilities, as well as developed a deep institutional knowledge and expertise in the production of steel and iron castings for the global mining and minerals processing market.

The company's deep foundry expertise and array of manufacturing capabilities allow for undertaking a wide selection of challenging projects, including:

- Castings ranging in weight from 1 to 5,000 lbs
- Dimensional footprint from a few inches to more than 12 ft
- Automated and floor molding options/capabilities
- High volume, serial production, as well as ultra low-volume applications
- Relatively small minimum heats (generally 1,000 lbs, minimum)



Beaver Valley Alloy

Quality Castings Since 1919

If you have any questions regarding BVA, our market expertise or our foundry capabilities, please feel free to contact us:

Beaver Valley Alloy Foundry Company

4165 Brodhead Road, Monaca, PA 15061-3026

Attn: John Forster, Jr. - Sales Manager

Office: 724-775-1987

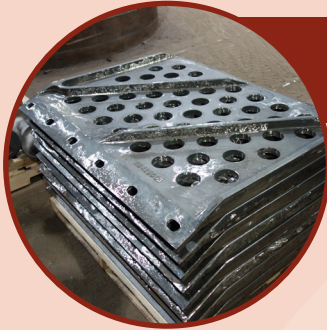
Toll Free: 800-900-8258

Fax: 724-775-1474

Email: cast@bvalley.com



MINING & MINERALS PROCESSING



Wear Parts & Abrasion Resistance

BVA supplies specialty steel and iron castings for an assortment of mining and minerals processing industry applications, focusing on wear parts and components designed for highly abrasive environments and conditions.

- Rolls
- Sprockets
- Crushers
- Screen Plates
- Roll Segments
- Treads
- Breaker Bars
- Breaker Plates

Common alloys for this market segment feature abrasion resistant characteristics:

- Hadfield austenitic manganese steel (ASTM A128)
- Ni-hard and high chrome white irons (ASTM A532)



Fluid Transport & Corrosive Processes

The company produces an assortment of castings for the mining and minerals processing industry that are integral in the processing and transport of highly corrosive fluids or slurries, conditions that can be especially severe.

- Valve Bodies and Disks
- Butterfly Valves
- Valve Seat Rings and Covers

Common metallurgies required in fluid transport and corrosive processes include:

- Full range of stainless steels (including ASTM A351 and A743, among others)



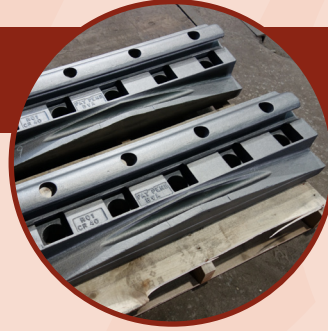
General Purpose & Replacement Parts

BVA manufactures castings for a wide variety of general purpose and structural components for grinding mills and other applications in the mining and minerals processing industry.

- Elbows
- Gears
- Gear Casings
- Bearing Bases
- Caps
- Support Arms
- Gear Segments
- Venturies
- Coupling Blocks
- Brackets and Sheaves

Common alloys for general purpose and replacement components include:

- Full range of carbon and alloy steels (including ASTM A27, A216 and A148, among others)



Crusher Mill Market - Hammers & Caps

BVA has a long history in the crusher market, and has expertise in the materials required for such extreme, wear-intensive applications and environments.

- Hammers
- Wear Plates
- Grinder Rolls
- Caps
- Blow Bars
- Other Crusher Components

Materials used in this market require extreme abrasion and wear resistance:

- Hadfield austenitic manganese steel (ASTM A128 and alloy modifications)



Beaver Valley Alloy

Quality Castings Since 1919