



More than just garnet

ABRASIVE BLASTING | WATERJET CUTTING | GARNET RECYCLING



GMA is the only global garnet company that completely owns the supply chain from the mine to our customers' door.

About GMA

GMA Garnet Group (GMA) is the trusted global leader in industrial garnet and has been providing the highest quality garnet abrasive to the waterjet cutting and protective coating industries for over 35 years.

GMA is the only global garnet supplier to own the complete supply chain from source and processing to international distribution. We own our mines and processing plants in Australia, USA and the Middle East and have invested significantly to expand our sources of supply and production capacity to incorporate alluvial, crushed and recycled garnet.

More than 450 GMA employees manage our operations encompassing 13 offices, two garnet mines and eight processing plants, including five large scale recycling

facilities, located across Asia Pacific, Europe, the Middle East and the Americas.

Our team of dedicated sales and technical experts work with our customers to understand their priorities and challenges. We deliver specialist advice and distribute a complete range of premium abrasive products to more than 80 countries from our own warehouses and a network of more than 100 distributor outlets.

GMA has led the innovation and development of new technologies for the global abrasive blasting and waterjet cutting industries, including the development of recycling technologies that offer our customers an eco-friendly solution for the disposal of used garnet.

Our history

GMA originated in Western Australia where our primary source of garnet was discovered near the coastal town of Port Gregory in 1973.

At the time of discovery, garnet was dismissed as a worthless mineral with no known uses or applications.

GMA experimented with possible uses and received a positive response from the local abrasive blasting industry.

During the following ten years, GMA identified high grade garnet deposits,

drilled new tenements and developed additional processing plants.

In February 1983, GMA secured its first major contract to supply over 2,000 metric tons of garnet for the construction of over 900 miles of natural gas pipeline from Dampier to Bunbury in Australia.

The project was a turning point for GMA as the use of garnet as an effective abrasive was quickly recognized globally and allowed GMA to establish new markets in Asia, the Middle East, Europe and USA.

At GMA we live and operate by our values – care, trust, teamwork and excellence.



Our values

At GMA we are about more than just garnet. Our core purpose is to make a difference for our customers, our people, our communities and the environment.

We are committed to fulfilling our purpose by always adhering to our values of care, trust, excellence and teamwork in everything we do. These values are more than mere words at GMA; they are fundamental to how we do things and how we engage with our stakeholders.

We are also committed to building long term partnerships with our customers, suppliers and distributors based on a spirit of collaboration and mutual trust.

At GMA we believe our people are the key to our success. The safety of our people is therefore at the core of how we do things. We want to ensure our people work in a positive and engaging environment and are focused on maintaining a culture across our global operations where our values are lived and our people feel supported and respected.

We are especially proud of our history and we are excited by the challenge and opportunities ahead. We believe our commitment to ethical and sustainable business practice provides the foundations for GMA to continue to deliver value for our customers and sustainable growth for GMA.

GMA's commitment to sustainability is reflected in the way we manage our natural resources.

Sustainability

GMA is focused on continuing to develop a sustainable future for our business, customers, employees and communities.

We will continue our ongoing focus on service, innovation and productivity to ensure the longevity of safe, profitable and valuable business operations.

We are committed to protecting the environment and have a proud history of sustainable mining practices. We take active steps to limit our impact on the environment and demonstrate responsible management of our natural resources.

Initiatives include the rehabilitation of mined areas to an original or better state than the pre-mining condition, and the use of clean and renewable energy sources.

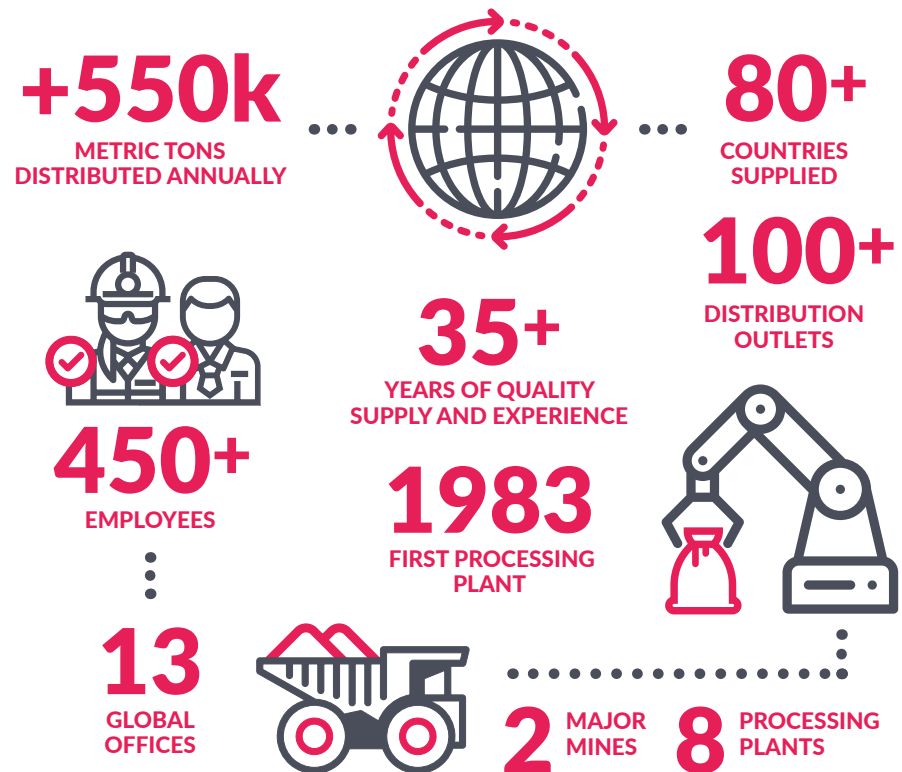
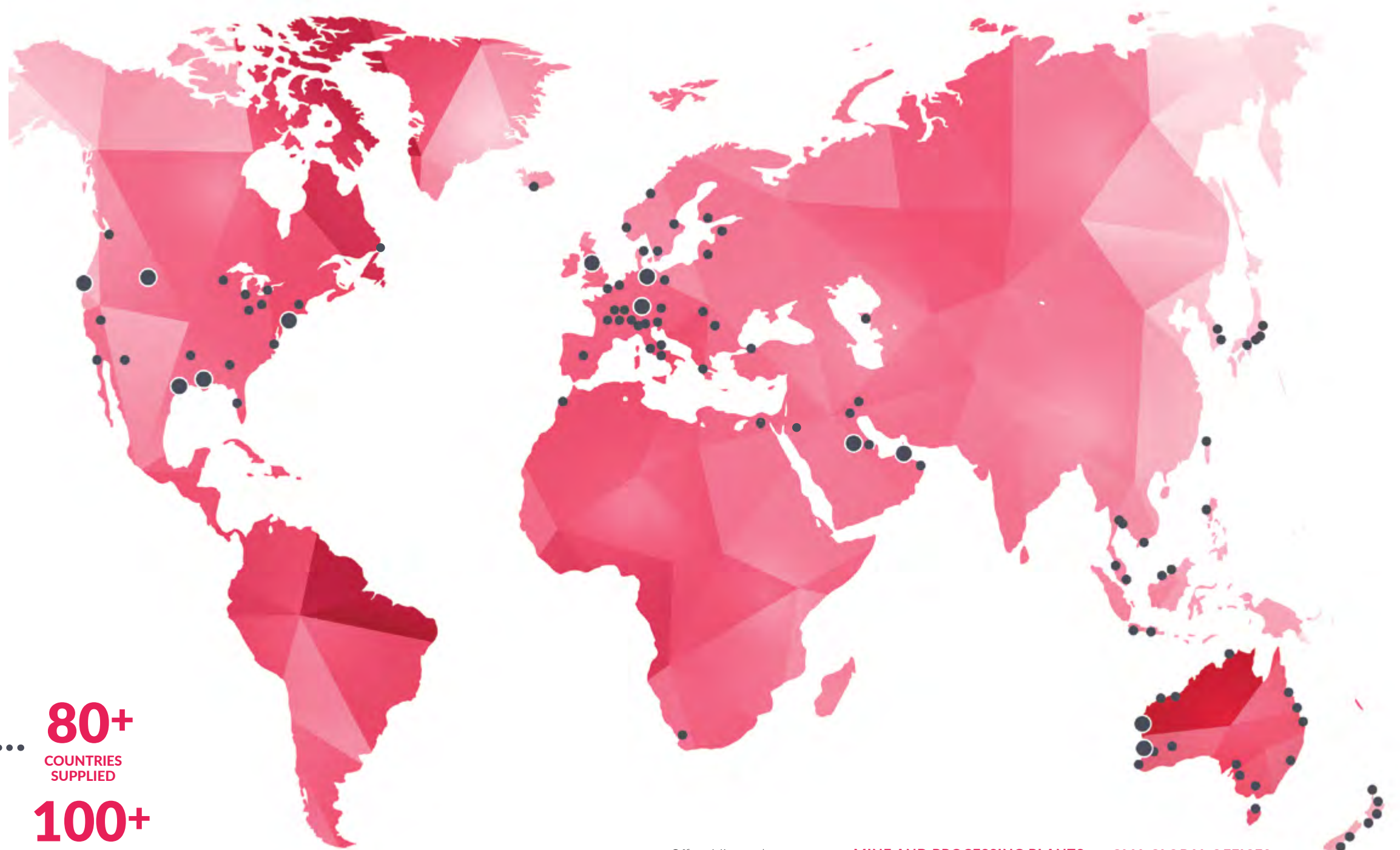
GMA has committed to supply 70% of the energy required for our West Australian mine and processing plant from a three megawatt wind and solar farm; an initiative that will reduce our carbon footprint by around 5,000 tons of carbon dioxide per annum.

Further protecting our natural resources, GMA is leading the innovation of garnet recycling technology. Through recovery and reprocessing of used garnet we provide our customers with a cost-effective and responsible option for managing used garnet that would otherwise be considered industrial waste.

Distribution network

Headquartered in Perth, Western Australia, GMA has well established operations around the globe. Since the early 1980s, we have exported over five million metric tons of GMA Garnet™ from Western Australia to Asia Pacific, Europe, the Middle East and the Americas through GMA's extensive network.

We support our customers throughout these regions with our own sales and technical teams, and in partnership with leading regional distributors, to provide a network of more than 100 distribution outlets worldwide.



- Office, Mine and Processing Plants
- Distribution Outlets

MINE AND PROCESSING PLANTS

- AUSTRALIA**
Geraldton, Western Australia
Port Gregory, Western Australia
- EUROPE**
Aulla, Italy
- MIDDLE EAST**
Dubai, United Arab Emirates
Jubail, Saudi Arabia
- USA**
Alder, Montana
Coos Bay, Oregon
Fairless Hills, Pennsylvania
Reserve, Louisiana

GMA GLOBAL OFFICES

- AUSTRALIA**
Perth, Western Australia
- EUROPE**
Hamburg, Germany
Frankfurt, Germany
Manchester, United Kingdom
- MIDDLE EAST**
Dubai, United Arab Emirates
Jubail, Kingdom of Saudi Arabia
- USA**
Houston, Texas



Mine & processing

Our promise is to maintain an uninterrupted supply of the highest quality garnet to our customers.

GMA is the only company to own the supply chain from the mine to our customers door. This control ensures that we can maintain an uninterrupted supply of high quality garnet to our customers.

We own and operate mines in Australia and the USA, and own a significant supply source in South Africa. These operations provide us with multiple secure sources of garnet and safeguard our supply.

GMA's mining and processing plants are at the heart of our global operations. Two major mines, five recycling plants and eight processing plants maintaining an uninterrupted supply of garnet to our customers.

Our reliable and advanced operations ensure efficient delivery of consistent, high quality products.

Consistent quality & product testing

GMA's consistent sizing and high purity enable high productivity and promote seamless operations for our customers.

Our in-house processing technologies has been developed over many decades and ensures the highest product standards in the world. The entire process from mining to production processing and administration is certified under various international quality standards.

We systematically test and analyze our garnet across nine key areas, including; particle size, mineral composition, turbidity, conductivity and chloride content to name a few. As all abrasives are not made equal, these tests ensure that GMA Garnet™ meet the highest industry and quality standards.

Technical expertise & product development

Our specialists have the expertise and resources to help customers meet their performance goals.

Maximizing productivity and performance is one of GMA's primary goals.

Our dedicated sales, technical and application specialists stand ready to assist in selecting the best products to meet our customers project specifications. Our teams are drawn from blasting and waterjet industries and have the expertise and resources to help solve problems and provide expert advice.

Since our inception, GMA has produced the highest quality premium garnet from our own source of Almandine garnet, known for its natural hardness, durability and abrasive characteristics.

Our products are developed from alluvial and crushed sources and are engineered to achieve the highest possible performance outcomes.

Throughout the decades, GMA has led the advancement of garnet abrasives for blasting and waterjet cutting applications. Our expertise in product application and development has enabled GMA Garnet™ to become the preferred choice for major oil & gas companies, shipyards, international fabricators, manufacturing and metal working operations on a truly global scale.

GMA partners with customers, industry, universities and government to research and develop products that deliver for our customers' specific performance requirements.

Ultimately, GMA's product development aims are about reducing customers' costs, safeguarding people and equipment and extending industrial asset life.

Our team of experts stands ready to provide support and advice to our customers.



Our team of experts stands ready to provide product support and advice and develop solutions for the technical challenges in your projects.

GMA Americas

GMA Americas has been providing GMA Garnet industrial abrasives for the waterjet cutting and protective coatings industries for over 14 years.

Since 2005, GMA has delivered high performance garnet from our office in Houston, Texas and via our advanced garnet processing and distribution plants in Oregon, Louisiana and Pennsylvania.

As the preferred supplier of abrasive garnet for the region's Aerospace, Oil & Gas and Ship Maintenance industries, our focus is on providing customers with a complete range of safe, efficient products, formulated to achieve specific results.

GMA's engineered range launched in 2017 expanded our industry leading products, creating new applications for the market and fulfilling our customers' demands for project specific abrasives.

We have invested significantly throughout the region, particularly in our mine in Alder, Montana, developing it into the largest operating hard rock garnet mine operating in the world. Known for our innovation, we have also taken a leading approach to garnet recycling with two garnet recovery facilities in the USA.

Supported by city councils, our garnet recovery programs provide customers with a cost-effective and responsible option for managing used garnet that would otherwise be considered industrial waste.

To further help our clients achieve the best possible work practices and product efficiencies, we operate a Customer Training Center to guide participants through the basics of blasting and onward to the management of specialized applications.

The training facility features a blasting lab outfitted with the latest demonstration equipment, and doubles as our product development and improvement center.

Our team of experts based throughout the USA stands ready to provide support and advice, from selecting the right product to suit your requirements and cost-effective logistics arrangements to developing solutions for the technical challenges in your projects.



GMA's range of high performance abrasives helps customers maximize productivity and reduce costs.

Abrasive blasting

Our industry-leading GMA Garnet™ range is extensive and provides a competitive edge in productivity and surface preparation cleanliness.

GMA Garnet™ is used as a blast cleaning abrasive across a wide range of industries and is approved for use by major oil and gas companies, shipyards and paint manufacturers.

We offer a complete range of garnet abrasives for any surface preparation requirement, from removing resistant coatings and heavy rust, to delicate restoration work.

Utilizing GMA Garnet™ abrasive blasting product provides a wide range of competitive advantages:

- **Higher productivity:** superior cleaning rates compared to other abrasives
- **Cost-effective:** lower garnet consumption, labor, clean up & disposal cost
- **Superior surface finish:** exceptionally clean surface & uniform profile
- **Recyclability:** can be recycled up to five times
- **Safe:** complies with work, health and safety regulations



Major industries

- Oil & Gas
- Pipelines
- Steel Fabrication
- Ship Maintenance
- Defense
- Construction & Infrastructure
- Transportation



GMA Garnet™ maximizes cutting performance - producing the perfect edge while safeguarding equipment.

Waterjet cutting

GMA Garnet™ is the first choice among craftsmen who demand efficient and precise waterjet cutting for steel, stone, marble, composites, plastics and glass.

Recognized as the industry standard among manufacturers of waterjet cutting machinery, GMA Garnet™ is perfectly engineered to deliver peak performance and longer lasting operating life for today's highly sensitive waterjet equipment.

We offer the widest variety of job-specific waterjet abrasives that allow customers to more precisely deliver the results they require including;

- **Peak performance**
- **High production rates & superior edge quality**
- **Minimizing downtime & maximizing production**

These outcomes make GMA Garnet™ the world's most popular waterjet abrasive range.



Major industries

- Aerospace
- Metalworking
- Manufacturing
- Automotive
- Defense
- Stone & Glass Cutting
- Transportation





GMA is leading the way in garnet recovery through:

- Working with specialist waste management operators for cost-efficient recovery
- Monitoring & testing of inputs and outputs
- Safe disposal of waste
- Maximizing garnet recovery & minimizing landfill waste.

GMA has been simplifying used garnet disposal for our customers with complete lifecycle solutions.

Garnet recovery & recycling

We believe in a sustainable approach to business and demonstrate this in the way we manage our natural resources.

Over the past 15 years GMA has pioneered the research and development of garnet waste management and recycling including significant investments in the building of advanced reprocessing facilities.

Our garnet recovery programs provide customers with a cost-effective and environmentally responsible option for disposing of used garnet.

Due to Almandine garnet's toughness and low friability, GMA Garnet™ abrasive can be recycled up to five times without compromising its reliable, high quality performance.

As our customers become increasingly focused on economic and environmentally responsible disposal solutions, GMA stands ready to support their businesses with complete life cycle solutions.

UP TO
90%
GARNET RECOVERY

80%
REUSABLE MATERIAL

RECYCLE UP TO
5 TIMES
2 RECYCLING PLANTS



Delivering beyond abrasives

GMA draws from our heritage, our innovative spirit, and our commitment to our people. Our customers trust us for our consistent quality and secure supply and we strive to provide deep expert advice that solves customer problems and enables them to do their jobs well. We understand our customers and develop our products to best meet their needs. At GMA we are about more than just garnet.



Secure supply

GMA is the only global garnet company that controls the supply chain from mine to customer. Our reliable and advanced operations ensure efficient delivery of consistent, high quality products.



Consistent quality

GMA Garnet's consistent sizing and high purity enables high productivity and promotes seamless operations for our customers. Garnet from our own mines, and in-house processing developed over many decades, ensures the highest product standards in the world.



Technical expertise

Our dedicated sales and experienced technical teams stand ready to assist in selecting the best products to meet your project specifications.



Customer focus

GMA values working with customers to understand their priorities and challenges so that we can deliver to their specific performance requirements.



Abrasive blasting

Our leading and extensive GMA Garnet™ range provides that competitive edge in productivity and quality of surface preparation.



Waterjet cutting

World class GMA Garnet™ maximizes performance, produces the perfect cutting edge and safeguards your equipment.



Recycling

GMA provides sustainable, economical and environmentally responsible solutions for our customers to dispose of their used garnet.





GMA AMERICAS

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GMA MINE & PROCESSING PLANTS

Montana (Mine) | Coos Bay | New Orleans | Pennsylvania

WAREHOUSES

Atlanta | Calumet City | Dallas | Fridley | Hebron | La Porte | Mentor | Phoenix
Santa Fe Springs | South Kent | Stockton | Tampa | Virginia Beach | Worcester