

INDUSTRY FOCUS

Built for abrasion. Tuned for the cut.

Mined minerals and aggregates are the hardest duty in dry bulk: abrasive by nature, dusty by default, and sold by the graded ton — which means the classification step defines the product and the wear rate defines the cost. GQI pairs world-class processing technologies with hands-on application expertise and responsive US-based support — helping mineral processors screen, classify, convey, and contain abrasive materials from pit to powder.

We support industrial minerals and sands, limestone and carbonates, clays, gypsum, salts, abrasives, refractory materials, and ores and concentrates.



Graded mineral aggregate — abrasive by nature, sold by the ton

Abrasion is the operating cost

Hard minerals grind away screen cloth, liners, elbows, and valve rotors. Wear determines the maintenance budget — so wear resistance belongs in the specification, from diffusion-hardened mesh to lined components.

Tonnage with a spec attached

Graded products live on cut accuracy at high rates: hold the top size, control the fines, keep the throughput. A drifting cut point downgrades the entire silo it fills.

Dust is a compliance issue

Mineral dusts — respirable silica above all — are regulated exposures, not just housekeeping. Dust-tight equipment and captured transfer points support the exposure-control program instead of fighting it.

Where we make the difference

- 01 Classification into graded products.** Multi-deck tumbler screening splits mineral streams into up to seven precise fractions with mesh openings from 20 μ m to 25 mm, at feed rates up to 50 tons per hour on a single machine.
- 02 High-capacity control screening.** Police product at receiving and ahead of bagging and loadout — high-frequency control screeners handle safety screening up to 200 tons per hour, with low overall height for tight installations.
- 03 Abrasion-duty screens & rescreens.** Wear-resistant, diffusion-hardened wire mesh delivers up to ~3 $\times$ wear life on abrasive products, with special steels and wear-appropriate bonding. Screens are supplied for GKM and most other screener makes — woven wire, perforated plate, and slotted media, tensioned and bonded to your frame drawing. **Send us the worn frame and we re-mesh it**, which costs less than a new screen and returns the same fit.
- 04 Dust-tight transfer & loadout.** FIBC filling and discharge with dedusting connections, rugged flexible connections in heavy-abrasion membranes, and conveying components with wear liners and lined diverters.

Let's talk about your process.

Innovative Solutions. Reliable Support. Always a Step Ahead.

sales@gqind.com | +1 (773) 234-8003 | www.gqind.com

WHAT WE DO

Rugged where it wears. Precise where it counts.

GQI curates proven technologies from trusted manufacturers and stands behind them for the full life of the installation — from our headquarters in the Chicago area. For mineral processors, that means machines and components specified for the abrasion they'll actually see — and a screen and parts pipeline that keeps them cutting.

Screening & Classification

GKM tumbler screeners for precision multi-fraction classifying and high-frequency control screeners for extreme rates — 24/7-duty machines proven on abrasives, tuned to the product they will screen.

Wear-Duty Replacement Screens

Wear-resistant, diffusion-hardened mesh, special steels, and wear-appropriate bonding, built on deep roll-good inventory with domestic supply options. New screens and rescreens for most makes and models — measured from your frame or your drawing, tensioned in-house, and expedited when the plant is waiting. Send the worn frame; get the same fit back.

Bulk Bag Filling & Discharge

Hecht FIBC filling and discharge stations with dedusting connections that capture displaced air at every transfer — sized to the bag actually in service.

Rugged Conveying Components

Airlocks in hardened builds, wear-resistant elbows, lined diverters, and cyclones with wear liners — every component specified against the same material and duty record.

Flow Promotion

Bin activators, vibrators, impact hammers, and Artech ultrasonic flow aids for minerals that cake, bridge, and rathole — matched to the failure mode and the vessel.

Aftermarket & Field Service

Factory-trained commissioning and start-up, preventive maintenance scheduled around measured wear rates, and on-site troubleshooting when a machine is off its cut. Repairs, bearing and drive overhauls, and rebuilds are handled on your equipment — not only on machines we supplied — backed by quick-ship parts and a documented service record for each asset.



Tumbler screening in an industrial-sand plant



ANSI-flanged connector, heavy-abrasion membrane



Rescreening a customer frame in-house

Materials we know

Silica & industrial sands

Limestone & carbonates

Clays & kaolin

Gypsum

Salts & potash

Abrasives

Refractory minerals

Ores & concentrates

Engineered for the duty: wear-resistant diffusion-hardened mesh, up to ~3× wear life • hardened & lined conveying components • dust-tight executions supporting respirable-dust programs • ISO 9001:2015 screen fabrication • EN 10204 3.1 • ATEX-certified builds



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