

INDUSTRY FOCUS

Safe. Clean. To spec. At line rate.

Flour, starch, sugar, dairy powders, spices, cocoa, protein blends, petfood kibble and meals — food-grade dry bulk has to arrive pure, screen to spec, and leave the plant with nothing in it that doesn't belong. GQI pairs world-class processing technologies with hands-on application expertise and responsive US-based support — helping food and petfood processors screen, convey, contain, and control ingredients hygienically and at production rates.

We support the full line: ingredient receiving, in-process sifting and classifying, petfood extrusion and coating lines, and the final check screen ahead of packaging.



Dust-tight bulk bag handling on a hygienic processing line

Foreign material is a recall

One wire fragment, one insect part, one lump of agglomerate in a finished bag can put a brand on the news. A final check screen ahead of packaging is the last physical barrier between the process and the customer.

Sanitation vs. uptime

Every crevice is a harborage point and every teardown is lost production. Hygienic design — crevice-free welds, tool-free screen access, wash-in-place options — decides how fast the line comes back after cleaning.

Dust is loss — and hazard

Escaped powder is yield walking out the door, a housekeeping burden, and an allergen cross-contact risk. Many food dusts — sugar, starch, grain — are combustible as well, so containment does double duty.

Where we make the difference

- 01 Check screening ahead of packaging.** Police outgoing product at bagging and packaging lines — high-frequency control screeners handle safety screening at rates up to 200 tons per hour through a single machine, with low overall height for tight installations.
- 02 Ingredient receiving & in-process sifting.** Safety-screen incoming material at truck receiving, then classify and sift in-process with mesh openings from 20 μ m to 25 mm — gentle tumbler motion for fine, friable, hard-to-screen products.
- 03 Petfood & extrusion lines.** Dedust kibble, extrudates, and regrind so fines stay out of the finished bag, and classify coated and uncoated product without beating it up.
- 04 Dust-tight transfer, sack to silo.** Bag dump stations that keep dust at the station, FIBC discharge with liner clamps and dedusting connections, and FDA / EC food-contact flexible connections at every equipment interface.

Let's talk about your process.

Innovative Solutions. Reliable Support. Always a Step Ahead.

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WHAT WE DO

Hygienic by design. Supported for life.

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 food and petfood plants, that means equipment specified for cleanability and compliance from day one, and the parts and people to keep it that way.

Hygienic Screening & Sifting

GKM tumbler and vibratory screeners with FDA and EC 1935/2004 food-contact executions, dust-tight modular decks, quick screen changes, and ultrasonic anti-blinding.

Replacement Screens & Rescreens

New screens and rescreens for most makes and models, bonded with FDA-approved epoxies or spot-welded where epoxy isn't advisable — documented, traceable, and built on deep US inventory.

Sack, Drum & FIBC Handling

Hecht bag dump stations, drum tipplers, and bulk bag filling and discharge sized to the container actually in service — with dedusting connections, liner clamps, and wash-in-place options.

Flexible Connections & Flow

Filcoflex connections with FDA / EC food-contact membranes — including detectable blue polyurethane for inspected lines — in Tri-Clamp, Jacob, band-clamp, and flange interfaces. Artech ultrasonic flow aids keep hygroscopic powders like cocoa moving.

Pneumatic Conveying

Vacuum and pressure conveying components with sanitary quick-clean executions and FDA filter media — specified from the material backward, so fragile product arrives intact.

Aftermarket & Field Service

Factory-trained commissioning, preventive maintenance built around sanitation schedules, OEM parts, and quick-ship screens — responsive and US-based.



GKM KTS tumbler screener, stainless execution



Tri-Clamp food-contact connection



Contained charging station

Materials we know

Flour & starches

Sugar & sweeteners

Dairy powders

Cocoa & coffee

Spices & seasonings

Proteins & whey

Nutritional blends

Petfood kibble & meals

Extrudates

Salt

Engineered for compliance: FDA food-contact materials • EC 1935/2004 executions • detectable & food-grade membranes • dairy weld finishes to $Ra \leq 0.8 \mu m$ • combustible-dust builds for sugar, starch & grain dusts (ATEX-certified) • EN 10204 3.1 material certificates



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