

INDUSTRY FOCUS

Contain the potent. Qualify the process.

Actives, excipients, and nutraceutical blends are unforgiving materials: potent enough that operator exposure is measured in micrograms, valuable enough that every gram counts, and regulated enough that the paperwork matters as much as the powder. GQI pairs world-class processing technologies with hands-on application expertise and responsive US-based support — helping manufacturers screen, transfer, contain, and document these products to spec.

We support dispensing and weighing, milling and security screening, blending and granulation transfer, tablet-press and encapsulation feeds, and high-volume nutraceutical powder lines.



Fine powder handling under controlled conditions

Exposure is banded, not guessed

OEB and OEL targets set the containment level for you — and for potent compounds that can mean sub-microgram-per-cubic-meter exposure limits. Open scooping and slit liners don't get there; engineered containment does.

Cross-contamination & cleaning

Product-contact surfaces have to give residues nowhere to hide and validation nothing to find. Finish quality — electropolished, crevice-free, wash-in-place ready — is specified up front, not fixed later.

Undocumented = undone

Equipment that can't produce its qualification package stalls the project at validation. IQ/OQ/DQ and FAT/SAT documentation and material certificates need to arrive with the machine, not after it.

Where we make the difference

- 01 High-containment FIBC & drum transfer.** Hecht liner-based connection and filling systems provide dust-free transfer of potent products with containment up to OEB 5 — the operator never meets the product, and the product never meets the room.
- 02 Precision & security screening.** Gentle tumbler and vibratory screening with cut points down to 20 μm , dust- and gas-tight modular decks for high-value products, and quick-clean executions that come apart for verification between campaigns.
- 03 Contained sampling, dosing & weighing.** In-process sampling without breaking containment, precision feeding, and Filcoflex weigh bellows that decouple load cells from the lines around them — so the measurement stays honest.
- 04 Nutraceutical volume with food-grade assurance.** Check screening of vitamin and mineral premixes ahead of packaging at high rates, with FDA-compliant contact materials and fast, tool-free screen changes between product runs.
- 05 Ultrasonic deblinding & flow promotion.** Artech ultrasonic systems keep fine, cohesive actives moving. A sound-transmission ring bonded to the screen holds the mesh open at cut points down to 20 μm — **no brushes, sliders, or cleaning balls that wear and shed into product** — while transducers on hoppers and feed cones break bridging in high-value powders without hammering the vessel. Low amplitude, no added noise, and nothing added to the product stream.

Let's talk about your process.

Innovative Solutions. Reliable Support. Always a Step Ahead.

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WHAT WE DO

Containment, screening & the documents to prove it.

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 pharmaceutical and nutraceutical manufacturers, every specification starts from the OEB level, the finish requirement, and the qualification package the project will need.

Pharma-Grade Screening

GKM tumbler and vibratory screeners with ViwateQ surface finishing for hygienic duty, FDA-compliant contact materials, and dust- & gas-tight click-on modular decks — quick changes between campaigns.

High Containment & Bulk Handling

Hecht liner connection systems, high-containment filling heads, and glovebox executions of bag-dump and drum stations — selected with GQI engineering against your OEB level, up to OEB 5.

Vacuum Conveying

Closed-loop vacuum transfer that moves powders between process steps dust-free — the product stays in the line, not in the room.

Flexible Connections & Flow

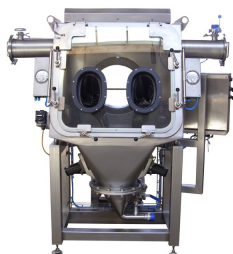
Filcoflex connections with FDA membranes, platinum-cured silicone, and PTFE options in Tri-Clamp and flange interfaces — plus Artech ultrasonic flow aids for cohesive powders and vitamin mixes that bridge in feeders.

Qualification & Documentation

IQ/OQ/DQ and FAT/SAT qualification documentation, EN 10204 3.1 material certificates, and original manuals and drawings for partner equipment — assembled with the machine, not chased afterward.

Aftermarket & Field Service

Factory-certified commissioning, preventive maintenance, OEM parts, and quick-ship replacement screens — so containment keeps performing the way it was specified.



Glovebox-class containment station



Contained powder sampling



Tri-Clamp sanitary connection

Products we support

Potent actives

Excipients & fillers

Granulations

Vitamin & mineral premixes

Botanical powders

Protein & collagen powders

Effervescent blends

Capsule & tablet feeds

Engineered for compliance: containment up to OEB 5 (Hecht) • ViwateQ pharma surface finishing (GKM) • electropolished finishes to $Ra \leq 0.5 \mu m$ • IQ/OQ/DQ & FAT/SAT documentation • FDA-compliant contact materials • EN 10204 3.1



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