

INDUSTRY FOCUS

Pellets, powders & regrind — cut clean, kept clean.

In plastics the product is judged on particle size and on dust. Fines in the pellets mean conveying trouble and customer complaints; longs and tails jam a feed throat; oversize in a powder coating shows up as a surface defect; and static makes all of it stick where it should not. GQI pairs world-class processing technologies with hands-on application expertise and responsive US-based support — helping resin producers, compounders, concentrate houses, and coaters screen, dedust, convey, and contain polymer materials at production rates.

We support virgin resin classification, color and additive concentrate (masterbatch) lines, compounding, regrind and reprocessing, powder coatings, rotomolding powders, and micronized polymers.



Concentrate pellets — the cut decides the quality

Longs and fines ride with good product

Pelletizing and grinding leave tails, doubles, and dust behind, and they travel with the good pellets into the dryer, the feed throat, and the customer's silo. Screening after the cut is what takes them back out.

The cut defines the coating

Powder coatings and rotomolding powders live on tight particle-size distributions — oversize particles become visible surface defects, superfines change transfer efficiency. The screen deck is a quality gate, not a formality.

Static is a process variable

Polymers charge readily in handling. Charged powder blinds meshes, clings to walls and connections — and fine polymer dust is a combustible-dust concern that conductive builds and grounding must address.

Where we make the difference

- 01 Color & additive concentrates.** Concentrate pellets are classified after pelletizing, whatever the compounding route. A two-deck screener lifts longs and agglomerates off the top deck and drops fines out the bottom, so what ships is on-spec pellet only — and quick-clamp decks come apart for a color changeover in minutes rather than shifts.
- 02 Dedusting pellets, granules & regrind.** GKM vibratory screeners dedust in-line — fast, compact machines with quick screen changes that protect extruders, molders, and the finished bag alike.
- 03 Powder-form polymers.** Powder coatings, rotomolding powders, micronized PE and PP, and polymer powders for additive manufacturing all live on a tight distribution and all blind a mesh. Tumbler screening delivers the fine cut; Artech ultrasonic systems keep it cutting, as OEM builds or as retrofits to decks already in service.
- 04 High-rate control & classification.** Police resin ahead of bagging and railcar loadout at up to 200 tons per hour through a single machine, or split ground and recycled polymer into up to seven usable fractions — with wear-appropriate builds for glass- and mineral-filled compounds.

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

From reactor to railcar. One accountable partner.

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 — equipment sized to real line rates, built for static and fine dust, and supported when the campaign can't stop.

Screening, Dedusting & Classification

Vibratory and tumbler screeners for dedusting granules, pellets and regrind, classifying into up to seven fractions, and 200 tph control screening — with FDA-compliant contact materials.

Replacement Screens & Rescreens

New screens and rescreens for most makes and models, with cloth engineered to the cut and ultrasonic retrofits that keep fine polymer powders from blinding the mesh.

Bulk Handling

FIBC filling and discharge, sack dump stations, and drum handling sized to the container actually in service — with dedusting connections that capture displaced air at every transfer.

Flexible Connections & Static Control

Filcoflex connections with antistatic and conductive membranes and grounding for fine-dust areas — Tri-Clamp, Jacob, band-clamp and flange interfaces.

Pneumatic Conveying & Flow

Conveying components specified from the material backward — gentle handling for fragile pellets, wear-resistant elbows for filled compounds — plus ultrasonic flow aids and lump breakers for bridging powders.

Aftermarket & Field Service

Factory-trained commissioning, preventive maintenance, repair, and quick-ship screens and parts — responsive and US-based.

The concentrate line, screened the way GKM does it

A color or additive concentrate — masterbatch, in the European term — is pigment or additive dispersed at high concentration in a carrier resin, then compounded and pelletized. However it was made, it has to be classified afterward: the screener separates longs and fines from good product.

GKM builds the **KTS-VS** for exactly this duty as a two-deck machine — a perforated top deck around 5 mm takes off longs and agglomerates, a lower deck around 2 mm takes out fines. Quick clamps open the decks so inserts change in minutes, which is what makes a color changeover survivable. Shaped perforated plates replace woven mesh where the pellet demands it.

Indicative concentrate throughput · 600 ≈ 200 kg/h · 900 ≈ 400 kg/h · 1200 ≈ 750 kg/h

Materials we know

Virgin resin & pellets

Regrind & flake

Powder coatings

Rotomolding powders

Color & additive concentrates

Micronized polymers

PVC & dryblends

Engineering resins

Additives & fillers



GKM KTS-VS — two-deck execution for concentrate pellets

Engineered for compliance: FDA food-contact executions for packaging resins • antistatic / conductive membranes & grounding • combustible fine-dust builds (ATEX-certified) • ISO 9001:2015 certified screen fabrication available • EN 10204 3.1 material certificates



Email us
sales@gqind.com

Let's talk about your process.

Innovative Solutions. Reliable Support. Always a Step Ahead.

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