



PROC-X MANUFACTURING GROUP INC.

AIS | DPMILLS | QUANTUMX | EMULXION | PRECXION | INSPEX

NUTRACEUTICAL MANUFACTURING SOLUTIONS

Engineering the systems that transform powders, pastes and liquids into safe, precise, scalable nutraceutical products.

Integrated technologies for powder mixing, paste processing, liquid mixing, vacuum drying, precision dosing, packaging, inspection and automation — designed for natural, organic, halal and kosher product programs.

**FROM NATURAL
INGREDIENT INTEGRITY
TO FINISHED PRODUCT
PERFORMANCE.**



Protect the
Ingredient



Protect the
Formula



Protect the
Quality



Scale the
Performance



CLEAN PROCESSING. | CONSISTENT PRODUCTS. | SUPERIOR PERFORMANCE.

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FROM NATURAL RAW MATERIAL TO ENGINEERED NUTRACEUTICAL PERFORMANCE

Proc-X integrates proven process technologies and hygienic design expertise to deliver safe, repeatable results for a wide range of nutraceutical manufacturing applications.



ENGINEERED SOLUTIONS FOR NUTRACEUTICAL MANUFACTURERS

- | | | |
|------------------------------|---------------------------|-----------------------------------|
| • Protein Powders | • Functional Beverages | • Capsules & Tablets |
| • Collagen & Greens | • Suspensions & Syrups | • Organic Programs |
| • Vitamin & Mineral Blends | • Gummies & Gel Systems | • Halal & Kosher Programs |
| • Herbal & Botanical Powders | • Probiotics & Prebiotics | • Specialty Wellness Formulations |



ENGINEERED
FOR PRECISION



BUILT FOR
COMPLIANCE



DESIGNED FOR
SCALABILITY



FOCUSED ON
PRODUCT INTEGRITY

CLEAN PROCESSING. | NATURAL PRODUCTS. | ENGINEERED RESULTS.

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POWDER MIXING & BLENDING FOR NUTRACEUTICAL MANUFACTURING

Proc-X sanitary powder mixing systems deliver uniform blending for protein powders, botanical blends, vitamins, minerals, sachet mixes, collagen products, greens powders, probiotic formulations, capsule premixes, and specialty nutraceutical powders.



RIBBON MIXING



PADDLE MIXING



PLOUGHSHARE MIXING



HIGH-SPEED CHOPPERS



MICRO-INGREDIENT ADDITION



CONTAINMENT & DUST CONTROL



EASY CLEAN / WIP-CIP



VALIDATABLE SANITARY DESIGN



UNIFORM
BLENDS



FAST
BATCH TIMES



GENTLE
PRODUCT HANDLING



LOW
CONTAMINATION RISK

ENGINEERED FOR CONSISTENT NUTRACEUTICAL BLENDING PERFORMANCE.

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PASTE MIXING & HIGH-VISCOSITY PROCESSING

Proc-X delivers precision-engineered solutions for demanding semi-solid nutraceutical formulations including gummies, gels, syrups with suspended solids, botanical pastes, probiotic concentrates, collagen gels, functional creams, and specialty wellness semi-solids. Our platforms combine controlled shear, vacuum deaeration, heating and cooling jackets, and robust agitation for smooth texture, consistent viscosity, and repeatable batch quality.

-  DOUBLE PLANETARY MIXING
-  SIGMA / KNEADER MIXING
-  SCRAPED-SURFACE AGITATION
-  VACUUM DEAERATION
-  HEATING & COOLING
-  HOMOGENIZATION OPTIONS
-  HIGH VISCOSITY TRANSFER
-  SANITARY VALIDATABLE DESIGN



CONTROLLED
SHEAR



SMOOTH
TEXTURE



AIR-FREE
PRODUCT



REPEATABLE
BATCHES

BUILT FOR HIGH-PERFORMANCE **SEMI-SOLID** NUTRACEUTICAL FORMULATIONS.

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LIQUID MIXING, EMULSIFICATION & DISPERSION

Proc-X EmulXion systems are engineered for the precise mixing, emulsification and dispersion of nutraceutical liquids including syrups, oral liquids, tinctures, suspensions, emulsions, liposomal supplements, process solutions, and functional beverage bases.

Our systems deliver sanitary design, high-shear mixing, homogenization, powder induction, and precise ingredient incorporation for consistent, high-quality results at every scale.



HIGH-SHEAR
MIXING



INLINE
EMULSIFICATION



HOMOGENIZATION



POWDER
INDUCTION



DEAERATION



TEMPERATURE
CONTROL



CIP/SIP
READY



SANITARY
PROCESS
CONTROL



STABLE
EMULSIONS



FASTER
DISPERSION



IMPROVED
RHEOLOGY



PROCESS
CONSISTENCY

ADVANCING NUTRACEUTICAL LIQUID PROCESSING WITH PRECISION AND CONTROL.

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VACUUM MIXING, DRYING & GENTLE THERMAL PROCESSING

ACTIVE PROTECTION | MOISTURE CONTROL |
LOW-TEMPERATURE PROCESSING | BATCH INTEGRITY

Proc-X designs integrated vacuum systems for vacuum mixing, vacuum drying, solvent and alcohol recovery where applicable, deaeration, low-temperature drying, and transformation of sensitive nutraceutical materials. From botanical extracts, mushroom ingredients, proteins, probiotics, enzymes, wet cakes, and specialty formulations—our systems preserve product quality while delivering safe, efficient, reproducible results.



	VACUUM DRYING		DEAERATION
	VACUUM MIXING		AGITATED DRYING
	LOW-TEMPERATURE PROCESSING		CONTAINMENT
	MOISTURE CONTROL		AUTOMATED RECIPE CONTROL



MOISTURE
CONTROL



PRODUCT
PROTECTION



PROCESS
EFFICIENCY



REPEATABLE
RESULTS

LEADING VACUUM PROCESSING SOLUTIONS FOR SENSITIVE NUTRACEUTICAL MATERIALS.

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PRECISION DOSING, FILLING & PRODUCT PROTECTION

Integrated end-of-line nutraceutical systems are engineered to deliver dosage accuracy, package integrity, traceability, and quality assurance across powders, capsules, tablets, gummies, jars, pouches, bottles, and specialty wellness packages.



MICRO & MACRO DOSING

High-accuracy addition for powders, granules, tablets, and capsules.



FILLING SYSTEMS

Precision filling for bottles, pouches, vials, jars, and specialty containers.



METAL DETECTION

Detect and reject ferrous, non-ferrous, and stainless contaminants.



CHECKWEIGHING

Ensure correct fill weights for every single package.



VISION / INSPECTION

Verify fills, presence, labels, codes, and seals.



CONVEYING & LINE INTEGRATION

Seamless product flow with transfers, accumulation, and system integration.



TRACEABILITY SUPPORT

Support product accountability and regulatory confidence.



CONTAINMENT-FRIENDLY DESIGN

Engineered for operator safety, product protection, and easy sanitation.



ACCURATE DOSING



PACKAGE INTEGRITY



FOREIGN MATERIAL PROTECTION



LINE EFFICIENCY

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FROM DEVELOPMENT TO PRODUCTION WE ENGINEER EVERY STEP

Proc-X supports nutraceutical manufacturers from concept development and pilot testing through scale-up, commercial production, automation, and lifecycle support. We help processors protect natural ingredient integrity while building scalable manufacturing systems for organic, halal, kosher, and clean-label product programs.



PROCESS DEVELOPMENT

Collaborating at the earliest stages to design the right process for your product.



PILOT TESTING

Bench and pilot-scale solutions to prove performance and de-risk scale-up.



SCALE-UP ENGINEERING

Engineered systems that scale seamlessly from pilot to commercial production.



SYSTEM INTEGRATION

Fully integrated process solutions with automation, controls, and smart connectivity.



VALIDATION SUPPORT

IQ/OQ documentation, FAT/SAT support, and regulatory readiness built in.



LIFECYCLE SERVICE

Global support, spare parts, training, and upgrades to keep operations performing.

LET'S ENGINEER THE FUTURE OF NUTRACEUTICAL MANUFACTURING TOGETHER.



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NATURAL INTEGRITY. | SCALABLE SYSTEMS. | LEADING PERFORMANCE.