

AIS | DP MILLS | QUANTUMX | EMULXION | PRECXION | INSPEX

PHARMACEUTICAL MANUFACTURING SOLUTIONS

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

Integrated technologies for powder mixing, paste processing, liquid mixing, vacuum drying, precision dosing, packaging, inspection and automation.

**FROM FORMULATION
TO FINISHED DOSAGE
PERFORMANCE.**



Control the
Formula



Control the
Process



Control the
Quality



Control the
Performance



PROC-X

PROC-X MANUFACTURING GROUP INC.

AIS

DP MILLS

QUANTUMX

EMULXION

PRECXION

INSPEX

FROM RAW MATERIAL TO ENGINEERED PHARMA PERFORMANCE

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



ENGINEERED SOLUTIONS FOR PHARMACEUTICAL MANUFACTURERS

- Oral Solid Dosage
- Powder Blends
- Granulation Systems
- Ointments & Creams
- Suspensions
- Sterile Liquids
- Vaccines & Biologics
- Nutraceuticals
- API Handling
- High Containment
- Validation Support
- Integrated Packaging



ENGINEERED
FOR PRECISION



BUILT FOR
COMPLIANCE



DESIGNED FOR
SCALABILITY



FOCUSED ON
QUALITY

POWDER MIXING & BLENDING

FOR PHARMACEUTICAL MANUFACTURING

Proc-X sanitary powder mixing systems deliver uniform blending for APIs, excipients, dry granules, sachet blends, nutraceutical powders, tablet premixes, capsule blends, and specialty formulations.



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* PHARMACEUTICAL BLENDING PERFORMANCE.

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PASTE MIXING & HIGH-VISCOSITY PROCESSING

Proc-X systems deliver precision-engineered solutions for the most demanding semi-solid formulations. Ideal for ointments, creams, gels, topical formulations, syrups with suspended solids, adhesive pastes, and specialty semi-solids. Our platforms combine controlled shear, vacuum deaeration, heating/cooling jackets, and robust agitation technologies to ensure 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 PHARMACEUTICAL FORMULATIONS.

LIQUID MIXING, EMULSIFICATION & DISPERSION

Proc-X EmulXion systems are engineered for the precise mixing, emulsification and dispersion of a wide range of pharmaceutical liquids including syrups, oral liquids, suspensions, emulsions, buffers, process solutions, biotech support fluids and specialty liquid formulations. Our systems deliver sanitary design, high-shear mixing, homogenization, dispersing 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

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VACUUM MIXING & DRYING SYSTEMS

CONTAINMENT | SOLVENT REMOVAL
MOISTURE CONTROL | BATCH INTEGRITY

Proc-X designs integrated vacuum systems for vacuum mixing, vacuum drying, solvent recovery, deaeration, low-temperature drying, and transformation of sensitive pharmaceutical materials.

From powders, wet cakes, and granules to APIs, intermediates, and specialty formulations—our systems deliver safe, efficient, and reproducible results.



VACUUM
DRYING



VACUUM
MIXING



SOLVENT
RECOVERY



LOW-TEMPERATURE
PROCESSING



DEAERATION



AGITATED
DRYING



CONTAINMENT



AUTOMATED
RECIPE CONTROL



MOISTURE
CONTROL



PRODUCT
PROTECTION



PROCESS
EFFICIENCY



REPEATABLE
RESULTS

LEADING VACUUM PROCESSING SOLUTIONS FOR SENSITIVE PHARMACEUTICAL MATERIALS.

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PRECISION DOSING, FILLING & PRODUCT PROTECTION

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



MICRO & MACRO DOSING

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



FILLING SYSTEMS

Precision filling for bottles, pouches, vials, 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

Advanced vision systems verify fill levels, presence, labels, codes, and seals.



CONVEYING & LINE INTEGRATION

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



SERIALIZATION SUPPORT

Serialization-ready solutions to support track & trace and regulatory compliance.



CONTAINMENT- FRIENDLY DESIGN

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



ACCURATE
DOSING



PACKAGE
INTEGRITY



FOREIGN MATERIAL
PROTECTION



LINE
EFFICIENCY

COMPLETE PHARMACEUTICAL END-OF-LINE SOLUTIONS ENGINEERED FOR COMPLIANCE.

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FROM DEVELOPMENT TO PRODUCTION WE ENGINEER EVERY STEP

Proc-X supports pharmaceutical manufacturers from concept development and pilot testing through scale-up, commercial production, validation, automation, and lifecycle support.



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

Engineering 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 and upgrades to keep your operations performing.



LET'S ENGINEER THE FUTURE OF PHARMACEUTICAL MANUFACTURING TOGETHER.



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