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LIQUID MIXING, HIGH SHEAR, WET MILLING, SEPARATION



Top Mounted Mixers With All Impeller Designs.
Process Scale-Up and Agitation Analysis Using CFD's.
Portable & Side Mounted Mixers. Manual & Electric Lift
Stands. All Stainless Sanitary Mixers. CFD Modeling



Quadro Y Tron ZC - High Speed Powder Dispersion
Quadro Y Tron Z - In line Emulsifier / Mixer
Quadro Y Tron Jet Mixer – In Tank Jet Mixer
Quadro HV Emulsifier – High Shear Homogenizer and
Wet Mill for Submicron milling



Seal - Less Magnetic Drive Mixers up to 100 HP.
Top, Side or Bottom Entering, 100% Leak Proof.
High Pressure Autoclave Reactors For Labs & Pilot Plant.



Tank Mounted/Hydraulic Lift, High Speed Dispersers, Drum
Mixers, Co-Axial & Tri-Axial Mixing Systems, Media Mills,
Hydraulic Discharge Presses.



Vacuum Processing Systems for Cosmetics, Skin Care,
Personal Care, and Pharmaceuticals



Continuous Solids Separation, Disk Stack Centrifuges,
Tricanter, Dewatering, Clarifiers, Soft Solids Separation

VESSEL FABRICATION & PACKAGES



High Alloy & Stainless Steel Vessels & Reactors,
Half Pipe, Dimple & Conventional Jackets,
Agitator Reactor Packages, CFD Modeling



Sanitary ASME Code Vessels For Pharma/Biotech/Food &
Beverage, Sanitary Polished Jacketed & Sheathed Tanks.



NonCode Polished Vessels, Portable Tanks, Chutes, Bins,
Totes, IBC's, Stainless Enclosures, Platforms, and Cabinets



HEAT TRANSFER

Temp Plate Prime Surface Heat Transfer Panels,
Accutherm Plate & Frame Heat Exchangers,
Sanitary Plate & Frame Heat Exchangers.



Portable & Central Chillers – Water & Air Cooled,
Centrifugal Scroll & Screw Type,
Packaged Temperature Control Units.



WATER TECHNOLOGIES

Validated USP Process Water Systems, RO Systems,
Loop-O & Loop-X Sterilization & Distribution Systems,
WFI Stills, Cold/Ambient WFI, Clean Steam Generators.



PROCESS PUMPS

Sanitary & Industrial Rotary Lobe & ECP Pumps,
Sanitary Centrifugal & CIP Return Pumps.



Metering Pumps – Diaphragm & Plunger, Hygienic Pumps
For Pharmaceutical / Biotech & Chromatography,
Multi-Head Pumps For Recipe Blending Systems.



Canned Motor Pumps – Leak free pumps for high
temperature and hazardous liquids applications



ANSI & API Mag-Drive Centrifugal Pumps,
Mag-Drive Multi-Stage Centrifugal,
Mag-Drive Hot Oil Pumps.

POWDER/SOLIDS PROCESSING



Weigh Feeders and Batchers, Bulk Bag Unloaders, Vibrating
Bins, Volumetric Screw Feeders, Continuous Blenders



Tablet Coating Systems, Continuous Coaters, Tray Dryers,
Conventional drum pans, Lab Scale Fluid Beds, Controls
Retrofits, Auxillary Equipment (tablet handling, etc)

PROCESS SKIDS



Skid Mounted Equipment Systems with Controls & FAT.
Sanitary Process Piping, Support Platforms.
Electrical Power Transmission, Custom Controls



INSTALLATION SERVICES

GMP Process Equipment Installation (Rigging, Piping,
Electrical) and Specification/Planning of Facilities and
Utilities services. Commissioning and Validation Services