**Bench Top Reactor Stand**  
ACE Glass, Inc / BOOTH 210  
Ace Glass's updated and improved bench-scale stand is designed for simultaneous use of two reactors. This American-made, versatile and proven design allows for growing with your project/application, beginning as small as 100ml through 6000ml.

**Poly Tote Mixer**  
AMI/Cygnet, The IBC Resource / BOOTH 155  
The Poly Flip Mixer is a revolutionary, high performance mixer available for various applications. This mixer is engineered for a direct mount on a 6" poly bung opening without compromising existing threads. It provides collapsible impellers to fit through a 2" opening for ease of access. The blade diameters are available from 4" to 17" that open with centrifugal force and collapse when the motor ceases. The Poly Flip Mixer is easy to clean and is equipped with a standard air motor with adjustable speed. It also can be customized for various product needs and applications.

**Wet Grinding Pump**  
ARDE Barinco, Inc. / BOOTH 105  
Heavy Duty up to 125 HP in-line grinder is pump capable of ingesting solids as large as 10 CM dia. that are flowing down a 6" to 10" pipeline. At flowrates upwards of 700 gallons per minute, solids such as plastic resins, butadiene rubber, wood chips, waste paper, seaweed, black liquor, and many others can be reduced by the 1800 RPM toothed impeller and expelled through the discharge grid openings that can be configured in many different sizes and shaped openings. (See photo of impeller and discharge grid options.)

**Poly Flip Mixer**  
AMI/Cygnet, The IBC Resource

**Pugmill Process Mixer/Granulator**  
Applied Chemical Technology, Inc. / BOOTH 816  
A pug mill from Applied Chemical Technology is excellent for processing wet or dry, heavy or light materials. Process applications include mixing, de-dusting, granulation, agglomeration, coating and reacting. The ACT pug mill utilizes a twin shaft design with hard surfaced mixing paddles. The paddles can be adjusted to control mixing intensity and retention time. Material of construction includes carbon steel, stainless steel or other alloys and has a steam jacketed design.

**Screw Outlet**  
Artisan Industries Inc. / BOOTH 604  
For materials that become sticky, viscous, tarry, clumping or cohesive as they are concentrated or dried, Artisan Industries Inc. is pleased to introduce a new option to their Rototherm® Thin-Film Evaporators and Dryers. By incorporating a screw extrusion device directly at the bottom outlet, they eliminate the potential for product build-up in the outlet. As the concentrated product reaches the discharge zone of the Rototherm®, the rotor blades push the final product directly into the screws, where it is extruded and collected many times, making a vacuum-to-atmosphere seal at the outlet of the screw for continuous product flow.
“Fluidized Bed” Scrubber
Bionomic Industries Inc. / BOOTH 316
Designed to handle gas capacities from 500 through 250,000 acfm, RotaBed’s superior performance comes from a unique swirl induced Coriolis grid that achieves much greater fluidized bed stability, resulting in more efficient gas mixing and transfer efficiency than less advanced designs. The scrubber’s turbulent, “packless”, highly plug resistant mass transfer bed is up to 99% open in the fluid contact scrubbing zone and delivers ultra high efficiency gas absorption and particulate collection of over 99% on most applications.

Tank Cleaning Equipment/ CIP Nozzle
Butterworth, Inc. / BOOTH 751
The Type LT Tank Cleaning Machine is one of Butterworth’s highly versatile 3D impingement cleaning devices that eliminates the need for Confined Space Entry. Their machines can be used as portable devices for cleaning as needed, where needed, or as permanently mounted fixed-in-place machines. The ROI is achieved through reduced energy costs, reduced effluent generation and reduced cleaning times, along with reduced water and chemical usage.

Moisture/Solids Analyzer
CEM Corporation / BOOTH 348
The SMART 6 features two major innovations, the ability to accurately analyze any sample, including solvent based chemicals, water based products, and even powders, as well as a significant reduction in sample drying times. These benefits are possible through the development of iPower® technology, which features a patented multi-frequency energy source for sample drying. Drying times are now up to ten times faster than IR drying systems, with the SMART 6 analyzing many sample types in just two minutes, with ASTM comparable accuracy.

Air Operated Drain Valves for Reactors
Chemglass Life Sciences / BOOTH 508
This air operated, flush bottom drain valve fits Chemglass reactors from ten to 50 liters that have a 2” beaded pipe connection. This valve is perfect for applications where solvent extractions or partitioning are done after a reaction. Due to the constant spring tension on the plunger, the valve is excellent for use during low temperature reactions where standard pumps, compressors and valves need constant tightening to prevent leakage.

Advanced-Flow Reactor
Corning SAS / BOOTH 251
The Corning® Lab Reactor is a metal-free plug and play open system that has a low internal volume with outstanding mixing and heat-transfer characteristics that enable a seamless scale-up with other Corning Advanced-Flow Reactor (AFR) products. This new, integrated, user-friendly system installs quickly and is a great solution for use in research institutes and academia to help researchers and students step into flow chemistry. The system includes data monitoring and storage, as well as a photo reactor option that offers efficient light penetration with illumination on both sides of the glass fluidic module.

Cabinet for Wet Chemical Processing
Custom Fab Solutions, LLC / BOOTH 545
Custom Fab Solutions offers a plastic or stainless steel cabinet with SS frame – size dependent on configuration. It offers process environment; HEPA filtration, auto cassette load and un-load, plastic and/or SS process tanks; quick change out design and process chemical filtration. Also featured are cassette rotation in process tanks, programmable rotation speed, real time chemical blending and concentration control, ultrasonic filtration, auto cassette load and un-load, plastic and/or SS process tanks; quick change out design and process chemical filtration. Also featured are cassette rotation in process tanks, programmable rotation speed, real time chemical blending and concentration control, ultrasonic filtration, auto cassette load and un-load, plastic and/or SS process tanks; quick change out design and process chemical filtration. Also featured are cassette rotation in process tanks, programmable rotation speed, real time chemical blending and concentration control, ultrasonic filtration. The cabinet has heated Nitrogen dryer, PLC with Data logging, recipe driven process control, HMI interface and Ethernet connectivity to Factory Monitoring System.
Agitator/Mixer
EKATO / BOOTH 642

The process of hydrogenation is a chemical reaction type with gaseous hydrogen as a reaction partner. Hydrogenations are generally carried out as heterogeneously catalyzed processes. Hydrogen is dispersed into fine bubbles in order to be dissolved in a liquid. The conversion of the dissolved hydrogen will then take place on the surface of a solid catalyst particle. Commonly used catalysts are palladium on activated carbon (alternatively platinum, rhodium, ruthenium or cobalt) and Raney nickel. A modern reactor system such as the EKATO hydrogenation reactor overcomes mass-transfer limitations by applying EKATO’s unique combined gassing technology along with an efficiently designed reactor cooling system. This permits shorter batch times, better conversion rates and better space/time yields, as well as a better product quality.

Heat Exchanger
Fenix Process Technologies Pvt. Ltd.
BOOTH 344

Fenix Process Technologies offers the Die Formed Plate Welded Heat Exchanger- the Weldatron Series. They also offer the Fully Welded Plate Heat Exchanger-The Bloc Series and the Gasketted Plate Heat Exchanger- The Tronphex Series. Other heat exchangers are the Scraped Surface Heat Exchanger-The Trontherm Series, and the Corrugated Tube Heat Exchanger-The Spiratron Series.

Crystallizers
GEA North America / BOOTH 245

GEA’s expertise encompasses design and construction of all basic types of crystallizers. These include forced circulation or draft-tube (MSMPR) crystallizers, turbulence (DTB) crystallizers, and fluidized bed (OSLO) crystallizers. The special requirements of each client are addressed, depending on the desired crystal quality and size. GEA also supplies upstream and downstream components for preconcentration, debrining, drying, solids handling and packaging. They can provide piping and instrumentation, as well as process control systems for their installations.

PVR’s, EPRV’s, and Tank Blanketing Regulators
Emerson Process Management - ENARDO
BOOTH 710

These products are used to ensure safety of liquid storage tanks. Pressure changes in tanks occur due to temperature changes and from the addition or removal of liquid. There is also a potential for contents to ignite, from lightning, sparks, etc. PVRVs are pressure vacuum relief valves which control the normal pressure in a tank. These have a set pressure at which they will open and relieve vapors – either to the atmosphere or to a vapor control system. EPRVs are emergency pressure relief vents that protect against abnormally high pressures. These vents incorporate a large opening that can relieve unsafe pressure buildup quickly. Under normal operation, these vents remain closed. Tank blanketing regulators control the flow of an inert gas, such as nitrogen, into a tank’s vapor space. Filling the vapor space in this way neutralizes the effect of oxygen, which results in increased safety.

Electric Circulation Heaters for Industrial Applications
Heatec, Inc. / BOOTH 114

Heatec’s EHI heaters can be used to heat thermal fluid that heats other plant equipment. They can also be used to directly heat a liquid or gas product that flows through the heater, including chemicals, oil, water, air, nitrogen and steam. EHI heaters are available in a wide range of thermal outputs, from 100 kilowatts to about three megawatts. The heaters can be customized to meet specific needs. Heatec offers them as skid mounted packages with a variety of options. EHI heaters have high thermal efficiencies, ranging up to 99.5 percent, which greatly reduces operating costs.

Lab Size Horizontal Peeler Centrifuge
HEINKEL Drying and Separation Group
BOOTH 104

The Heinkel H300P Lab Size Centrifuge is designed as a turnkey system on a mobile cart, which can be easily moved in and out of the lab area. The unit has full touch screen controls and data storage capabilities.

IBC Product
Hoover Ferguson / BOOTH 219

Hoover Ferguson’s IBC products are primarily used for shipping Haz/ Non-haz products over the road and are also used for storing and blending. These products have been improved for maximum discharge/durability and cost savings.
Electro Synthesis
IKA Works®, Inc. / BOOTH 213

ElectraSyn flow is an innovative system for the continuous electro synthesis. A peristaltic pump serves for pumping the basic material/electrolyte via two flexible pipes through the electro synthesis cell. Within this flow cell two electrodes are mounted parallel and at a short distance to each other. These electrodes, anode and cathode are connected to the power supply unit by two current-carrying conductors and supplied with direct current. When the electrolyte is flowing into the cell, the required electro synthesis process with oxidation and reduction can take place.

Paddle Processor
Komline-Sanderson / BOOTH 136

In the K-S Paddle Processor, indirect heat transfer is used for indirect drying, heating, cooling, reacting and pasteurizing. The mixing action of the K-S Paddle Dryer’s dual intermeshing agitators, with heated wedge shaped paddles, provides for uniform heat transfer to or from the product and high heat transfer rates. Heating can be done with steam or thermal fluid. The product moves continuously through the processor by displacement, and the residence time is controlled by the feed rate. A totally enclosed process is provided, allowing it to be used on hazardous material. A design for operation under a vacuum is available.

Pastillation System
KAISER Process and Belt Technology GmbH
BOOTH 447

The rotating pastillation process Rollosizer® is KAISER’s most recent development and complements their pastillation systems. It is designed to achieve high capacities, even with low viscous products, even at very high temperatures. With very little effort, you can replace the KAISER-Rollosizer® and install a KAISER-Rollomat® (and vice versa). The result: you can run almost all possible products, which can be pastillated, with basically one cooling belt unit.

Kek Centrifugal Sifter
Kemutec Group Inc. / BOOTH 248

Kek Centrifugal Sifter offers high speed and efficient processing of powders, granules and slurries. It features a full cantilever shaft, and the unit benefits from easy start-up, an operating and a shutdown/clean in place automated protocol in each system. Fabrication of these large plants is completed in USA shops.

Double Planetary Mixer
Jaygo, Incorporated / BOOTH 719

The Titan Double Planetary Mixer is a highly versatile change-can mixer suitable for a wide range of products, including water-like liquids, high viscosity pastes, gels, ointments, slurries, and even granulations and free-flowing powders. It is designed as a standard to operate under vacuum and with heating or cooling. Due to the unique mixing action of the Double Planetary Mixer, a wide range of products can be completely mixed with no dead-spots, highly efficient heat transfer and high vacuum. The change-can feature allows quick and easy change-over from batch to batch.

Teflon-Kynar Lined Static Mixer
Komax Systems, Inc. / BOOTH 229

The Komax Triple Action Static Mixer provides the highest level of mixing of any static mixer. Teflon-Kynar lined static mixer is corrosion resistant and can mix acid and aggressive chemicals. 25% glass filled Teflon mixing elements are designed to be used for the most challenging mixing applications. Removable injection quills and mixing tees are also available.

Paddle Processor
Komline-Sanderson / BOOTH 136

In the K-S Paddle Processor, indirect heat transfer is used for indirect drying, heating, cooling, reacting and pasteurizing. The mixing action of the K-S Paddle Dryer’s dual intermeshing agitators, with heated wedge shaped paddles, provides for uniform heat transfer to or from the product and high heat transfer rates. Heating can be done with steam or thermal fluid. The product moves continuously through the processor by displacement, and the residence time is controlled by the feed rate. A totally enclosed process is provided, allowing it to be used on hazardous material. A design for operation under a vacuum is available.

Chemical Reactor
Laminar Co., Ltd. / BOOTH 555

Laminar’s reactor is used for all chemical materials by using Taylor flow. LCTR(Laminar Continuous Taylor flow Reactor) provides two advantages. It has three times faster mass transfer velocity and seven times stronger mixing force compared to conventional reactors. It can also continuously produce high-quality and uniform powder.
**Tank Cleaning Nozzle**

**Lechler, Inc. / BOOTH 819**

The 5TA is a light weight tank cleaning nozzle with a compact hygienic design. It is extremely effective due to the particularly powerful solid jet nozzles, which are ideal for small tanks with difficult soils. The series can resist pressures of up to 217 psi and high temperatures without any problem.

![STA Tank Cleaning Nozzle](image)

**High-Performance Drum or Tote Cabinet**

**LEWCO, Inc. / BOOTH 647**

LEWCO High-Performance Drum and Tote Heaters are used for melting, viscosity reduction, elevated temperature storage and general industrial heating applications. High-performance models provide a 25% faster heat up time and, by design, are safer than the traditional hot box models. LEWCO's models employ a high-efficiency fan, which pulls air from the oven workspace, circulates it over the heating medium, and then delivers it at a highly convective rate back to the oven workspace. The standard High-Performance Drum and Tote Ovens are designed and manufactured to meet the requirements of NFPA 86 Class B ovens. The optional features include 450 degree F, exhaust fan and NFPA 86 Class A rating.

![High-Performance Drum or Tote Cabinet](image)

**EX LED Lights**

**L.J. Star Incorporated / BOOTH 431**

The ideal solution wherever fittings are difficult to access and where heat and vibration will routinely wear out halogen bulbs. The lights are a solution for the pharmaceutical and food processing industries, ideal for illuminating bioreactors, laboratory mixers and filters, as well as for the interiors of boilers, tanks, agitators, separators, pipes and other, usually sealed, vessels in operating environments that are not potentially explosive. Some key features include insensitivity to vibration, long service life and high operational reliability and continuous operation for LED up to about 50,000 hours. Other features include no heat radiation in the light port (cold light) and extreme high-contrast lighting.

![EX LED Lights](image)

**Service, Replacement Parts and Testing**

**Lödige Process Technology / BOOTH 818**

Lödige Process Technology USA is the US subsidiary of Lödige Process Technology located in Paderborn, Germany. At their facility in Florence, KY, they offer replacement parts and service for Lödige and Papenmeier equipment installed in North America. Due to their extensive experience, they can provide the same for Littleford mixing equipment. Lödige has over 125 years of technical experience with plough processing technology and is available to assist in providing solutions that meet industry needs. Testing of your mixing process is available in the US facility, as well as having access to the processing experience and history of the team in Paderborn.

![Service, Replacement Parts and Testing](image)

**Low and High Gas Pressure Regulator**

**Marsh Bellofram / BOOTH 746**

Type P627 from BelGAS is a spring loaded, direct-operated, low and high gas pressure regulator, designed to support a variety of applications in the oil and gas industries. These regulators provide durability, from the powder-coated epoxy exterior finish, as well as installation versatility, from the multi-position body and spring case configurations. These regulators are also available in an external pressure registration model (P627M), and NACE compliant construction, as well as with choice of aluminum, steel or LCC body, as well as bonnet and diaphragm cases. The gas pressure regulators also feature a wide range of flow capacities to suit a wide range of requirements.

![Low and High Gas Pressure Regulator](image)

**Anodized Aluminum**

**Metalphoto of Cincinnati / BOOTH 455**

Metalphoto is a versatile anodized aluminum that has durability in industrial applications and harsh environments. Metalphoto's high-contrast, high-resolution images have resistance to UV and sunlight. The images are sealed beneath a sapphire-hard anodic layer that provides excellent protection against chemicals, corrosion, abrasion and extreme temperatures. Metalphoto anodized aluminum is primarily fabricated into labels and tags used to identify and track unique items and processes, as well as for front panels for equipment. It is also frequently used for data plates and signage.

![Anodized Aluminum](image)
Multi Gas Analyzer
MIP Cemtrex Inc. / BOOTH 250

In-situ NDIR, the IS2500 is designed for on-line analysis of up to five gas phase process components. The system is comprised of two parts: the Optical Head Unit (OHU) and the Auto-Zero/Auto-Purge Panel (AZAP). The multi-gas analyzer offers: Multichannel instrument that can measure up to five components; Direct in-situ measurement that requires no high cost, high maintenance sample handling systems; In-built filter; Auto-zero that reduces calibration frequency; Heated sample probe that prevents condensation on optics; Auto-purge that eliminates risk of condensation in the event of heater lens power failure; Incandescent filament infra-red source that is easy to replace at low cost; Single moving part in Optical Head Unit; Anti-vibration mounting gaskets; Trend plots on Signal Processor Unit for an at a glance record of plant performance and emissions monitoring; and a trend printout for a hard copy to use in conjunction with environmental emissions requirements.

Agitator Bead Mill for Particle Size Reduction
NETZSCH Premier Technologies, LLC
BOOTH 504

In place of the cast housing, external instruments and pipework, there is a clear, dynamically-curved welded construction of heavy plating, which also fulfills a load-bearing function. The ergonomic design of the machine stand was a primary consideration during the development phase. The Alpha® has a self-supporting grinding chamber, which ensures good accessibility to the grinding area during operation and maintenance. Thanks to the ergonomic mounting of the grinding chamber, changing products is quite easy, especially on the smaller models. Different grinding systems can be mounted on one base stand, customized for the requirements of the product you need to process. The modular system provides cross-system standardization and thus the option to economically convert a machine to a new grinding system.

Hot Oil System Cleaning Fluids
Multitherm / BOOTH 324

Multitherm PSC-Plus® cleaning fluid is designed to breakdown used thermal fluid and clean internal components, such as cholesterol buildup on piping. Multitherm FF-1® flushing fluid is designed to dissolve sludge, carbon and general buildup in the system. Both fluids are compatible with almost all heat transfer fluids. Multitherm also provides a wide selection of coils, heat exchangers, tube bundles and filtration systems.

Water Filter
Orival Water Filters / BOOTH 742

The new Orival Model ORZ self-cleaning screen filter requires only about 1/3 as much water for the screen cleaning process as conventional filters. Models are available with 2-24 inch connections and greatly increased screen areas. Screen elements come in either single layer woven or multi-layer 316LSS construction. Filtration degrees go from 5 to 3000 microns.

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Ignitable Liquid Storage Solution
Safespill Systems / BOOTH 736

The Ignitable Liquid Storage Solution allows for safe storage of ignitable liquids in strategic locations and minimizes operational downtime. It features an enclosure that fits up to 18 IBC totes or a combination of totes and drums, and is “plug and play” into an existing facility’s utilities. The system costs a fraction of the cost of traditional permanent cut off rooms and can be installed in four to six days.

Hazardous Material Containment
Safety Storage, Inc. / BOOTH 811

Safety Storage, Inc. designs and develops pre-fabricated steel hazardous material storage building solutions for the storage of chemicals, solvents, paints, and other hazardous materials. The company offers non-combustible steel building systems, fire-rated hazardous material storage buildings, weather-resistant pre-engineered chemical storage facilities, palletized hazardous material storage lockers, blast resistant buildings, battery maintenance facilities, drive on/off containment and filtration systems, spill containment systems, and in-drum/drum compactors.
**Chemical Solidification Equipment**  
**Sandvik Process Systems** / **BOOTH 505**

Sandvik’s Rotoform granulation system is a popular and efficient solution in the market. Typical applications include the granulation of waxes, hot-melt adhesives, and other chemical products. The Rotoform 4G pastillator provides dust-free pastilles that are highly uniform, hemispherical, stable, thermally unstressed and of high purity and quality. It can produce pastilles of precisely the right size, from micropastilles of 1 mm (0.04 in.) diameter to larger pastilles up to 30 mm (1.18 in.). Products with melting temperatures up to 300°C (572°F) are suitable for this process as are those with viscosities from 1 to 50000 Pas.

**Portable Sanitary Pump System**  
**Shanley Pump & Equipment, Inc.** / **BOOTH 500**

Shanley Pump offers, ready to ship from inventory, their newest “Portable Sanitary Pump System”. They offer a high quality centrifugal sanitary pump made by Hilge in Germany. It is manufactured in rolled 316ss, with very smooth surface quality and sanitary design, for the ultimate in sterile pumping. The sanitary pump is mounted on a portable cart with a high efficiency motor and a speed controller, to adjust the flow to your exact pumping applications.

**Clean Fan System**  
**SonicAire / BOOTH 814**

SonicAire® clean fan systems prevent dangerous combustible dust buildup and save money. SonicAire® fans are the only proactive solution that prevents dust accumulation on overhead structures. Powered by the groundbreaking BarrierAire™ technology, SonicAire® fans create an air barrier that shields overhead structures from dust buildup. Your facility can maintain the highest levels of clean to continuously comply with OSHA and NFPA dust regulations.

**Screening Equipment/High Performance Mixer**  
**Smico-Symons / A&J Mixing Co.** / **BOOTH 144**

Smico-Symons VibroSet screeners are used for material separation by size, or scalping of oversized particles from your raw material to finished product. The A&J Phlauer Mixing Technology applies cutting-edge paddle mixing technology that gives organized particle transfer and predictable mixing of your materials to the highest possible degree.

**Tank Cleaner**  
**Spraying Systems Co.** / **BOOTH 312**

The new TankJet® 78 tank cleaner provides fast, high-impact cleaning of tanks up to 45’ (13.7 m) in diameter. The unit is built to withstand the harshest of chemicals and can operate while fully submerged. It features a threadless, crevice-free and self-cleaning design, which takes just minutes to disassemble, without tools, for easy maintenance. Providing 360° coverage of tank interiors, the unit is ideal for clean in place (CIP) applications. It is available in single hub (two-nozzle) or dual hub (four-nozzle) design.

**Stainless Steel ASME Vessel**  
**Stainless Fabrication, Inc.** / **BOOTH 624**

Stainless Fabrication’s 40,000 gallon cone-bottom sludge holding tanks were designed for use in the oil and gas industry. They are constructed of 316L stainless steel and have dimpled heat transfer surface on the bottom cone. The tanks are 13’ ID x 50’ high overall and include a ten foot high carbon steel skirt. They were built in the SFI facility in Springfield, Missouri and are shipped to the jobsite.
Bulk Liquid Storage System

Steelcraft / BOOTH 729

Steelcraft’s newly developed ‘TANKGUARD-VM™’ pre-packaged storage and mixing solutions conserve space and offer safety, environmental and economic benefits. The system combines bulk agitated resin storage with secondary heating and pumping in one convenient skid. Heating only the discrete volume of fluid required for the day’s/shift’s production needs results in considerable energy savings and quality enhancements, versus maintaining the entire bulk system at an elevated temperature. Bulk handling of the products rather than through drums and totes means less chance of spills and operator injury.

TANKGUARD VM™ Storage System
Steelcraft

Process Chiller

Thermonics / BOOTH 627

These portable, air-and-water-cooled chillers deliver ultra-low temperature (-80°C) cooling for lab and production applications. Compatible with a variety of heat transfer fluids, the A-80 and W-80 models are fully programmable and equipped with chiller health diagnostic to ensure reliable 24/7 process cooling. Thermonics chillers are now equipped with more fluid control options, including fluid pressure control, flow control and automatic fluid recovery, to make connecting and disconnecting fluid lines clean and easy. Thermonics is an ISO9001 and ITAR registered company.

Ultra-Low Temperature Chillers
Thermonics

Plate Heat Exchanger

Wessels Company / BOOTH 551

The newly developed WP205 is one of the largest plate heat exchangers available today. Standing over ten feet tall, eight feet wide, up to 20 feet long and featuring 25 square foot plates and 20 inch connections, the WesPlate WP205 can handle the largest process demands. It is also AHRI certified.

Glass Lined Process Heat Exchanger

THALETEC GmbH / BOOTH 644

The PowerBaffle integrates baffle and heat exchanger functions in one equipment. It significantly improves the production process, making it more effective and efficient, as well as adding flexibility in the usage of any glass lined reactor. The PowerBaffle can be installed in the reactor as an additional baffle or can replace existing ones. The heat transfer is improved by increasing the heat transfer rate, which significantly reduces heating and cooling times and speeds up throughput times without big investments. The Powerbaffle improves productivity and reduces energy costs and has a quick response and reliable integrated temperature measurement sensor.

Planetary Centrifugal Mixer

THINKY USA, INC. / BOOTH 628

THINKY USA, INC is able to simultaneously carry out the two processes, “mixing” and “deaeration”, which have been considered as separate for a long time. The uniform mixing and deaeration performance has contributed to addressing various issues that come up when studying and developing materials. As a tool capable of efficient dispersion and deaeration in a small amount of time, in the field of various functional materials, including composite materials with nano material, Thinky Mixer has been widening its field of utilization from research and development to manufacturing production. Especially, for mixing and dispersing of high polymer materials, including high viscosity resin and polymers and various fillers, its capability to process without shearing the filler and maintaining the solid state properties is drawing attention.

Dryer, Thermal Oxidizer

Wyssmont Company, Inc. / BOOTH 204

The TURBO-DRYER is used to dry water and solvent wet materials capable of producing a free flowing product, with very low moisture or solvent levels. Vacuum is not required to achieve these levels. The dryer handles materials very gently and dries fragile crystals and preformed pellets with a minimum of breakage or fines formation. The process solutions it provides are enhanced by offering the benefits of very low maintenance, continuous automatic operation and low horsepower requirements. Its heat recyle system provides for low BTU requirements per pound of evaporation.

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**Digital Mass Flow Meter**

**Aalborg Instruments / BOOTH 200**

Introducing Aalborg’s DPM multi-parameter mass flow meters, which provide measurements of volumetric and mass flow rates, plus pressure and temperature indications of process gases. DPM flow meters support various functions, including two programmable flow totalizers; low, high or range flow, temperature and pressure alarms, automatic zero adjustment (activated via local or communication interface), programmable SSR relay, programmable 0-5 Vdc, 0-10 Vdc or 4-20 mA outputs, user-programmable pulse output, and self-diagnostics. ±(0.5% RD + 0.2%FS) accuracy, 200:1 turndown ratio and less than 20 ms response time allow users to save costs of installation of discreet application specific instruments required to perform specific measurements.

![DPM Digital Multi-Parameter, Multi-Gas Mass Flow Meter](image)

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**Magnetostrictive Float Level Transmitter**

**Automation Products Group Inc. / BOOTH 349**

Series MPX Magnetostrictive Level sensors provide highly accurate andrepeatable level readings in a wide variety of liquid level measurement applications. The corrosion resistant MPX-E Chemical brings you accurate and dependable level measurements in places where stainless steel doesn’t measure up. The chemical resistant coating is designed for use in corrosive, acidic, and marine environments, such as: sulfuric acid, boric acid, hydrochloric acid, sodium hydroxide, and sea salt water. As with all MPX probes, the MPX-E Chemical carries both CSA Class I Division 1 and Class I Division 2 approvals.

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**Control Valve Actuator**

**Badger Meter / BOOTH 310**

Introducing the newest addition to the Badger Meter line Research Control® Valves – SEVA. SEVA (Smart Electric Valve Actuator) leverages cutting-edge technology to deliver outstanding performance with a position accuracy of ±1% of full scale. Ethernet/IP compatible and ODVA certified, SEVA provides a dynamic valve actuator solution for customers demanding a higher level of information and connectivity in their process systems. The initial release will includes both 100 pound and 200 pound thrust models.

![SEVA (Smart Electric Valve Actuator)](image)

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**Ultrasonic Flow Meter**

**Bronkhorst USA Inc. / BOOTH 109**

The new ES-FLOW™ Ultrasonic Flow Meter from Bronkhorst® will measure tiny volume flows from four to 1500 ml/min with high precision, high linearity and low pressure drop. Liquids can be measured independent of fluid density, temperature and viscosity. Wetted parts are made of stainless steel, and the exterior is rated to IP67. The user interface is a capacitive touchscreen with a TFT display. The on-board PID controller can drive a control valve or pump, enabling users to establish a complete, compact control loop. Typical applications can be found in chemical (catalysts, reagents), food, beverage and pharma (additives, sterilization), as well as medical industries.

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**Fully Automatic Drum Filler**

**Atlantic Scale Co., Inc. / BOOTH 427**

From simple pail to IBC’s, these filling systems offer safe and accurate solutions for most liquid filling applications. Standard features include stainless steel construction for all parts contacting product, proximity switches for accurate control and safety, dual ball pumps, compressors, valves for two speed delivery and a remote operator station. The IND560 weighing controller adds high speed A/D rates, advanced digital filtering and a broad array of communications capabilities. Application highlights include programmable timers, target memory and recall and intuitive operator interfaces. Fill containers efficiently and accurately with METTLER TOLEDO filling systems. This machine is designed to automatically fill four drums on pallet, with included bung locators or totes.

![MT-SST Auto Filler](image)

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**Windows 10 Tablet Computer**

**ecom instruments inc / BOOTH 350**

ecom instruments offers a Windows 10 tablet computer for use in C1D2 areas.

![Pad-Ex Tablet Computer](image)

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**Field Calibrator & Communicator**

**Beamex / BOOTH 345**

Beamex MC6 is an advanced, high-accuracy field calibrator and communicator. It offers calibration capabilities for pressure, temperature and various electrical signals. The MC6 also contains a full fieldbus communicator for HART, FOUNDATION Fieldbus and Profinbus PA instruments. It replaces the need for several pieces of equipment because it is a meter, documenting calibrator, communicator and data logger all in one. It can be used with calibration software to create a totally automated calibration process. The advanced functionality combined with the friendly, easy to use interface is what makes this calibrator the ideal solution for field calibrations.

![Beamex MC6 Advanced Field Calibrator and Communicator](image)

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**Moisture Analyzer**

**FINNA GROUP / BOOTH 239**

The SMART III NIR Sensor analyzes the material's surface 30 times per second using near-infrared technology. Besides speed, the SMART III offers accuracy. It measures in the 0–60% range, with finite readings available in the 0–0.1% range. It is an ideal product for continuous, non-destructive moisture and coat weight on moving webs, as well as both flat belt and screw conveyors.
**Powder Tester**

Freeman Technology Inc. / BOOTH 318

The FT4 Powder Rheometer® from Freeman Technology is a universal powder tester. It uses patented dynamic methodology, a fully automated shear cell (ASTM D7891) and several bulk property tests, including density, compressibility and permeability, to quantify powder properties in terms of flow and processability. FT4 Powder Rheometers® are installed around the world in a diverse range of industries including chemical, pharmaceutical, toners, foods, powder coatings, metals, ceramics, cosmetics and many others. They deliver data that maximize process and product understanding, accelerating R&D and formulation towards successful commercialization, as well as supporting the long term optimization of powder processes.

**Spectrometer**

Ocean Optics / BOOTH 747

Ocean Optics optical sensing and spectral imaging systems enable process engineers and R&D professionals across the chemical, food and beverage and other industries to improve efficiency, reduce waste and ensure safety. Among their latest products is EMBED, a small-footprint spectrometer for process control applications and integration into process analytical devices. EMBED provides excellent thermal stability and measurement reliability, and is packaged with minimal electronics to reduce device footprint and simplify integration. With its robust onboard electronics, EMBED provides spectral preprocessing and multi-channel capability, as well as native SPI communication to establish a fast, stable interface with microcontrollers and control systems.

**Dual Channel Absorption Sensor**

optek-Danulat, Inc. / BOOTH 524

The AF26 is a dual-channel absorption sensor that automates manual processes and increases control of in-line applications. The sensor measures color and/or concentrations using light. The AF26 is available in a wide variety of line sizes, process connections and wetted materials, is constructed of SS 316 Ti and can accommodate sanitary CIP/SIP applications to extremely high-pressures (up to 325 bar) and high process temperatures (up to 464°F), while meeting hazardous area classifications. Optional NIST-traceable validation accessories guarantee reliable and repeatable measurements. Common applications include color monitoring of refined fuels, water in oil/oil in water, carryover detection in distillate streams and more.

**Quality/Compliance Management Solution**

Qualtrax / BOOTH 226

Qualtrax Compliance Software is a compliance management solution that provides the tools needed to meet ISO 9001, ISO 13185, ISO 14001, AS9100, OSHA’s 18001 standards, 21CFR Part 11, and other regulatory or internal standards. Qualtrax simplifies internal and external audits and streamlines employee training and competency management. It ensures the most recent policies and work instructions are up-to-date, as well as automating paper processes and drastically reducing the amount of time it takes to prepare for and complete audits.

**Non-Metallic Enclosures**

Robroy Enclosures / BOOTH 629

Stahlin Non-Metallic Enclosures Expanded J Series are used in a wide range of industrial applications including chemicals, pulp and paper, petroleum and more. The Expanded J Series is available in sizes 20x20, 24x20, and 24x24, all with hinged lockable pull latch (HPL) and new 3-point latch (3PT). The benefits of the enclosures include being UL Listed per UL File #E64358 for NEMA Type 1, 3R, 4, 4X, 12, 13 as well as being UL Listed per UL File #E362920 for IEC IP66. Other benefits include a chemically resistant fiberglass reinforced composite formulation for long product life, UV resistance featuring patented SolarGuard® - a patented, non-halogenated fiberglass system which outperforms all other available SMC formulations by as much as 60 percent in its ability to protect against UV damage, while retaining gloss and color and a UL94-5V flame resistance.

**UV-VIS-NIR Spectrometer**

tec5USA, Inc. / BOOTH 328

The CompactSpec® family of systems feature rugged, process-ready UV-VIS-NIR spectrometers and light sources, available as separate modular units, or housed in a singular IP65 enclosure with an integrated PC and touchscreen, and optional explosion protection (Atex Zones 1 and 2) and Vortex cooling. The new Flow unit for CompactSpec® extends capabilities via an embedded control system that both eliminates the need for an operating computer and provides a very reliable, real-time operating system. The Flow unit permits sampling for a variety of liquid samples, including caustics and corrosives, via a customizable flow-cell interface.
Continuous-Indexing Vacuum Belt Filter

**BHS-Sonthofen Inc. / BOOTH 715**

The BHS vacuum belt filter is used for continuous filtration, displacement and counter-current cake washing and drying by vacuum, convection blowing and pressing, as well as for steaming. Applications include ag chemicals, starch, food, bulk and final pharmaceutical and nutraceuticals, zeolites, polymers, biochemicals and other specialty and fine chemicals. Due to the step indexing design with continuous feed, the BHS belt filter provides for maximum wash efficiencies and multi-type drying. The BHS belt filter provides dry cake to less than 10% moisture and conductivities to less than five micro-siemens.

![Vacuum Belt Filter](image)

Disposable Filter

**Lenzing Technik GmbH / BOOTH 118**

The Lenzing Technik HisoFil installs (via conversion kit) up to 10 m² filter area in a size two filter bag. In comparison to conventional convert-elements for bag filters, this filter is characterized by a very stable pleating (high holding capacity), a secure sealing, as well as a low price per area. When given a favorable particle spectrum filtration, costs can be reduced by up to 90%.

HisoFil Filter

**Lenzing Technik GmbH**

Solvent Dehydration System

**Membrane Technology & Research, Inc. / BOOTH 728**

Many commercial solvents form azeotropes with water, which makes solvent recovery by simple distillation impossible. Compared with other more complicated alternatives, MTR's SolvSep™ zeolite membrane based systems effectively remove water from these azeotropic mixtures in a single single stage process. Vapor permeation of water through the robust zeolite membrane allows almost complete recovery of dry organic solvent at purity up to 99.9 wt%. The membrane system has small footprint and is simple to operate. It requires low capital investment and low operating cost. The payback time for most applications is about six months to one year.

![Solvent Dehydration System](image)

Vibratory Separator

**Midwestern Industries Inc. / BOOTH 329**

The MR Series Gyra-Vib® Separator features a conventional design, utilizing a center-mounted motor and unique balance cage weight system, to control the vibratory screening motion. Midwestern's MR Separators are ideal for sizing most particles, including liquid or solid applications, and are offered in various sizes ranging from 24" through 60" in diameter. Additional screening decks are available for multiple separations. Midwestern Industries also offers a free test facility to help their customers make informed decisions about screening equipment and their screening process.

![Vibratory Separator](image)

Continuous Centrifuge

**TEMA Systems, Inc. / BOOTH 548**

TEMA Systems, Inc. offers continuous centrifuges from pilot to full industrial scale centrifuges for liquid/solid separation applications. Designs include Conturbex and Pusher screening centrifuges for crystal separation applications. Decanting style centrifuges including short bowl decanters for high temperature, cleaning, or ease of access applications. Custom design equipment and hybrid design units for specialty processes also offered.

![Continuous Centrifuge](image)
Air Operated Diaphragm Pump
All-Flo Pump Company / BOOTH 654
The A200 Air Operated Diaphragm Pump has an all bolted design with no band clamps. It has side liquid porting that dimensionally matches all major competitors as well as ANSI/flange connections for increased dry lift (From 13ft-H2O to 17ft-H2O) and increased wet lift (from 26ft-H2O to 29ft-H2O). This allows for increased energy efficiency through reduced air consumption. It is available in polypropylene or PVDF with elastomers available in PTFE, Santoprene®, Geolast® & Viton® and uses Existing Plastic Pump’s Air-Valve, Diaphragm & ODP.

PFA Lined Butterfly Valve
A-T Controls, Inc. / BOOTH 337
The AS Series PFA Lined butterfly valve is primarily used in an industrial or chemical process that has harsh, corrosive compounds. The combination of a PTFE seat and PFA lining on the disc and body make the valves more durable than valves with metallic parts. Key features include a 17-4PH non-wetted stem, which helps avoid MAST (Maximum Allowable Stem Torque) problems, live-loaded packing, ISO 5211 direct mounting mad, and API 598 pressure testing standard. The unique stem design allows for protection against stem twisting without being directly subjected to process media, while the PFA lining (3mm min. thick) provides optimal corrosion resistance.

Rotary Lobe Pump
Boerger, LLC / BOOTH 543
The ONIXline is a positive displacement rotary lobe pump designed for conveying demanding media. It is used when other pumps have reached their limits. Newly developed rotors in a flow-optimized pump casing, combined with the robust carrier and timing gear, ensure gentle and almost pulsation-free operation, while achieving maximum efficiency at high. Equipped with a very large sealing chamber, the ONIXline offers different sealing options for specific applications. The ONIXline pumps are easy to maintain with the Maintenance in Place design. All wetted parts can be replaced through the front cover without the removal of pipe or drive systems.

Magnetically Driven Gear Pump
Dynaflow Engineering, Inc. / BOOTH 125
The G8000 series magnetically driven gear pump shares common features with Dynaflow’s current pump lines and are able to transfer or meter over 20 GPM without leakage. The common features include wrought alloy housings instead of castings, unitized shaft gearing without leakage. The common features include wrought alloy housings instead of castings, unitized shaft gearing for smoother operation, ability to handle non-lubricating liquids, lower weight internal magnets for reduced bearing wear, and sealless leak free operation.

Stainless Steel Ball Valve
Enolgas USA Inc. / BOOTH 120
The Stainless Steel Ball Valve is used for food and pharmaceutical applications. With ASTM A270 end connections and standard or integral virgin PTFE gaskets, this full flow two-way, polished AISI 304L / AISI 316L stainless steel ball valve tri clamp with aluminum pneumatic actuator and rack & pinion type produces torque output in a compact design. The valve is available with antistatic device ATEX and/or gaskets with glass filled PTFE. The pneumatic actuators are available in spring return and double acting version, in different sizes and configurations.

Two-way Diverter Valve
FLSmidth Inc. / BOOTH 530
FLSmidth’s new spring-loaded linkage for their popular SK™ two-way diverter valve features improved reliability of disc positioning. The previous method of relying on limit switches to position the disc has been improved to allow a mechanical stop method of seating the disc accurately in the valve. Included is a new lever design with adjustable stops, which positions the disc over each seat, a spring-loaded linkage with clevis that absorbs impact at each position, new proximity switches, and a mounting plate and tripper that signal the brake motor to stop. Also offered are new limit switches for position indication inside the switch box and a crank arm for gear motor. Pumps, compressors and valves can be converted with the valve in place. FLSmidth field supervision is available as well.

Metering Pump
Fuji Techno Industries Corporation
BOOTH 127
Able to provide continuous delivery of a vast range of liquids and chemicals, the P501-M08 unit can operate at flow rates up to 1086 ml/min, at pressures up to 98Bar, with near zero pulsation and reproducible accuracy of up to 99.9%. It offers temperature range from -30°C to +120°C (higher temperature possible on demand) and viscosity range from 1 up to 20,000 mPas.

Liquid and Gas Pump
KNF Neuberger, Inc. / BOOTH 621
KNF is known for proven liquid and gas transfer performance for safety-critical applications. The durable diaphragm pumps with explosion-proof motors are suited for NEC/CEC Class 1, Division 1, Groups C&D and Division 2, Groups A, B, C, and D IEC EX, ATEX, and other protection levels are available. Liquid flow rates to 6.1 L/min at pressure to 88 psi. Gas flow rates to 30 L/min, pressures to 176 psi, and vacuum to 29.86 in Hg.
**Eccentric Screw Pump**

**Lutz Pumps, Inc. / BOOTH 230**

Lutz Pumps’ HD-E eccentric screw pump offers the optimum solution to transferring thin to medium-viscosity media like acids, oils, creams and foods from mobile containers. The HD-E features a separate circulation and flushing line, which prevents material deposits around the mechanical seal and premature seal failure. Features include a bearing head with a mechanical seal, sealing surfaces made of wolfram carbide material combination, free-wheeling shaft with eccentric screw gear, easily detachable pump tube and tri-Clamp connection. An explosion-proof version and a PURE version are available. The advantages are easy/quiet operation, being light weight and mobile, quick disassembly for cleaning and being up to 4,000 cps and up to 5.3 GPM.

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**Mag Drive Industrial Pump**

**Maag Pump Systems / Maag Americas**

**BOOTH 544**

The magnetic drive is hermetically sealed, guaranteeing environmentally hazardous, poisonous and malodorous substances are pumped safely. Product chamber in the gear pump is completely separated from environment by a containment shell. Torque is transferred from motor shaft to pump shaft without contact by means of heavy-duty permanent magnets. This design makes the magnetic couplings extremely safe and virtually maintenance-free. The pump has a long service life and low maintenance costs.

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**Electric Actuators**

**NINGBO KIMAX CONTROLS INC. / BOOTH 737**

Kimax Controls Inc. is engaged in the supply of actuation systems for valves including electric actuators, pneumatic actuators, hydraulic actuators and all types of valves as well as packaged valves and the related accessories. Kimax offers a range of electric actuators including part-turn and multi-turn. This series has a compact structure, high transmission efficiency, high stability and easy maintenance and other characteristics. It is widely used in petroleum, chemical, coal, electricity, sewage treatment and other industries.

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**Vacuum Pump**

**Pfeiffer Vacuum / BOOTH 342**

Pfeiffer Vacuum CombiLine Roots pumping stations are used in low and medium vacuum environments and offer high pumping speeds. They feature a variety of backing pumps and accessories in configurations to deliver the right solution for demanding processes, such as electron beam welding, freeze-drying and simulation chambers.

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**Vacuum Pump**

**Vacuubrand, Inc. / BOOTH 526**

Oil-free VACUUBRAND diaphragm vacuum pumps with fluoropolymer flowpaths resist chemical attack, are designed for service intervals of 15,000 hours or more in continuous duty, and are available in capacities for lab use and process scale-up. Pumps are available as fixed-speed units or with variable speed motors for energy efficiency and precise vacuum control.

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**Syringe Pump for Precision Fluid Dispensing**

**SYRINGEPUMP.COM / New Era Instruments**

**BOOTH 708**

New Era Instruments offers a syringe pump for precision fluid dispensing. It is used for simple measured dispensing applications, to advanced programmable pumping programs. The syringe pump integrates with sensors and other devices through digital logic and serial computer interface, as well as being compatible with third party automation software or PLC. The pump holds all standard syringe sizes and infuses and withdraws. It creates continuous infusion systems with the addition of pumps, compressors and valves. The syringe pump has a compact durable steel chassis. It is easy to use keypad interface or upload control programs from a computer. The pump is also available in OEM versions, higher speeds, higher force and multiple channel versions. All the advanced features are offered at a value price. Designed and manufactured in the USA.

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**Syringe Pump**

**Teledyne Isco / BOOTH 646**

Achieve accurate flow rates in a compact continuous flow syringe pump. The Demi 2510S is a small, compact positive displacement pump suited for continuous flow applications and more. It takes less bench space and requires less maintenance. With an accuracy rate of +/- 1%, you can count on the Demi to perform reliably.

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**Triplex Metering Pump**

**Wanner Engineering / Hydra-Cell**

**BOOTH 605**

Wanner offers a metering pump for a wide range of chemical injection applications, which meets or exceeds API 675 for Steady-state Accuracy (+ 1%), Linearity (+3%) and Repeatability (+3%). The pump handles a wide range of fluids at low flow (minimum 0.06 gph/227 lph) to a maximum capacity of 8 gph (30.28 lph) and pressure rating of up to 3500 psi (241 bar). It features a multiple-diaphragm triplex design to provide virtually pulse-free flow without the need for pulsation dampeners. It also includes a built-in pressure valve and a unique replenishment valve system, which protect the pump in the event of blocked suction. Electronic flow control increases accuracy and reliability, while hydraulically-actuated diaphragms provide superior performance across the entire pressure range.

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**Syringe Pump**

**SyringeOne Syringe Pump**

**SYRINGEPUMP.COM / New Era Instruments**

**Hydra-Cell Metering Solutions**

**MT8 Triplex Metering Pump**

**Wanner Engineering / Hydra-Cell**

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Chemical Hose Assembly

Hewitt, A Husky Company / BOOTH 442

Loading and unloading hose assemblies can now rest on a series of stainless or galvanized steel frame segments, so the weight of the product and the hose assembly is carried entirely by the loading arm. Rather than physically drag and lift heavy hoses with large couplings, operators easily maneuver the hoses supported by the loading arm into position. The system utilizes a flexible joint mechanism that is easier to operate than more expensive fixed swivel systems. The loading arm is designed to prevent wear and tear to the hose assembly and does not allow the operator to overbend or kink the hose. A vertical height adjustment segment can be supplied as an option. The loading arm handles hose IDs from one to four inches and lengths up to 20 feet.

Thermoplastic Industrial Hoses

Kuriyama of America, Inc. / BOOTH 119

Voltbuster™ Volt™ and VLT-SD™ Series (fabric reinforced) hoses by Tigerflex™ feature an innovative design which effectively dissipates static to ground, helping prevent static build-up and reducing the potential for dangerous electrostatic discharges. The hose tube is constructed from highly abrasion resistant food grade polyurethane to ensure the purity of transferred materials. The grounding wire is encapsulated in a rigid PVC helix on the exterior of the hose, safely eliminating the risk of contaminating the transferred materials. Voltbuster™ hoses were designed for high static applications, transfer of powders, pellets and granular materials. The use of “Cold-Flex” materials provides cold weather flexibility.

PTFE Clamp-Joint Drainage System

Micromold Products, Inc. / BOOTH 809

The solid PTFE FLUOR-O-FLO® XPress piping system is ideally suited for drainage applications in which highly aggressive fluids must be handled. These include laboratories in the pharmaceutical industry in which tough solvents, and sometimes unpredictable fluid mixtures, must be drained. Applications also include drain lines for concentrated acids and alkalis. The system is also well suited to other low-pressure process industry applications where the corrosion resistance and purity of PTFE are desirable.

Stainless Steel Reinforced Convoluted PTFE Hose

MTO Hose Solutions Inc. / BOOTH 755

The 300 Series offers a stainless steel wire reinforced open pitch convoluted Khemgard® PTFE hose. Khemgard®, a specially formulated PTFE, offers greater hose flexibility, reducing kinking and allowing the hose to self-drain more easily. The low coefficient of friction of the Khemgard®, coupled with an innovative convolution design, allows for increased flow rates through the hose. The advantages are open pitch convolutions offering greater flexibility, excellent chemical resistance, broad operating temperature range, as well as being FDA compliant. The Khemgard® is rust and corrosion resistant, is easily cleaned (steam cleaning is also okay), and has reduced coefficient of friction and unlimited shelf life. Khemgard® has applications including cosmetics, pharmaceutical, food and beverage transfer, pulp and paper and foam packaging. Its applications also include air compressor discharge, tire press and chemical transfer.

Mechanical Seal

SCENIC PRECISE ELEMENT INC. / BOOTH 255

Engineered to cover the needs of the refining and petrochemical industries, the APD 355 is especially suited for high-temperature and high-pressure applications. The features and benefits include a balanced seal designed to handle higher pressures and generate less heat, as well as monolithic sealing faces according to the API 682 standard, which offer excellent wear and chemical resistance. The self-aligning compensates for shaft runout up to 10mm, increasing operational reliability. A patented impact absorbing washer is utilized to ensure spark-free operation, greatly reducing the risk of on-site catastrophic fire. The APD 355 is designed for sealing hazardous emissions of acidic, caustic, corrosive and toxic media, and containing light hydrocarbons, including VOCs. It is also suitable for API process pumps and chemical liquid transfer pumps.

Lined Pipes & Fittings

Tflon Process Systems Canada Ltd. / BOOTH 244

Used in highly corrosive or high purity processing plants like bulk drug, food processing, chemical, oil and gas processing plants, a lining option is available in various grades, based on application and processing parameters. It gives longer life of piping in corrosive chemical processing and cost effective replacement of expensive piping made of exotic metallurgy.

Press Fittings

Viega LLC / BOOTH 731

New Viega MegaPress® Stainless press fittings dramatically decrease the time required to make pipe repairs in processing facilities. Faster repairs mean shorter periods of production downtime, reducing the potential for losses in revenue. Designed for Iron Pipe Size (IPS) stainless steel, the new Viega Stainless fittings make secure connections in seven seconds or less, decreasing installation time by up to 60% compared to welding or threading. Combining productivity with peace-of-mind, the new MegaPress® Stainless fittings are equipped with the patented Viega Smart Connect® feature, which allows installers and maintenance personnel to easily identify unpressed connections during pressure testing.
Adhesive Fluoropolymer Resins and Compounds
AGC Chemicals Americas, Inc. / BOOTH 211

Adhesive Fluon ETFE and PFA resins can chemically adhere to dissimilar materials through co-extrusion processes, due to the functional adhesion group polymerized directly into the chain backbone. AH-ETF is ideal for multi-layer tubing, particularly where conductivity and permeation resistance is required. LH-8000 ETFE can be used for film extrusion or laminates in a one-step process many times without a tie layer, whereas EA-2000 PFA is ideal for coating and protecting printed circuit boards.

Low Temperature Chiller
Budzar Industries / BOOTH 804

The Low Temperature Evaporative Condensed Chiller from Budzar Industries maximizes heat rejection and is highly efficient. The energy savings reduce environmental impact, save money and are realized through the lower system condensing temperatures. Features of the Low Temperature Evaporative Condensed Chiller include 185 ton capacity, -50°F to 95°F temperature range, galvanized structural steel frame and R-507 refrigerant. Also included are a screw compressor with variable slide valve, hot gas by-pass and oil pump strainer and isolating valve. The chiller has an ASME coded multiple stage oil separator tower stand and NEMA 4 electrical enclosure. Budzar Industries has been providing results-producing process fluid heat transfer systems since 1975.

Anti-Microbial Cooling Tower
Delta Cooling Towers, Inc. / BOOTH 325

The Delta Cooling Tower Anti-Microbial Cooling tower is unique because it is the first cooling tower with an additional protection against Legionella risk. The anti-microbial compounded resin is a blue color to make these cooling towers distinctive in the field as a tower with this protection. Additionally, there is extra protection provided by the sloped basin designs in larger towers that prevents stagnant water areas that are a breeding ground for biological growth that can harbor legionella pneumophila. According to test results from Special Pathogens Laboratory®, the tower displays the only anti-microbial efficacy against Legionella bacteria out of all the common cooling tower materials. The anti-microbial concentrate is compounded into the cooling tower base resin permanently before molding the casing, as well as the PVC Fill material that also has anti-microbial compounded into raw material before forming. It will be valuable for the health and safety of maintenance workers, site personnel and the community where cooling towers operate.

Digital Shift Log Software Platform
eschbach GmbH / BOOTH 641

Shiftconnector™ is an award-winning software platform that improves communication between shift teams, production engineers, maintenance engineers and plant managers. Shiftconnector™ can replace old spreadsheets and paper-based shift logs with an easy to use, audit-proof digital platform for exchanging information, managing tasks, documenting shift handovers and reporting KPIs such as OEE or asset utilization.

Server-less, VoIP Intercom
GAI-Tronics Corporation / BOOTH 254

GAI-Tronics’ new SP2 Server-less Intercom Stations offer network communications without the need for a central server. Each handset station is capable of providing up to five (5) party lines and five (5) page lines for zoned broadcasting to loudspeakers. Units are available for indoor safe areas, Div. 2 and Div. 1 installation.

Hydrocarbon Processing / BOOTH 225

Hydrocarbon Processing provides cutting-edge technical and market information for the global refining, petrochemical and gas processing industries. Since 1922, Hydrocarbon Processing’s in-depth technical articles and data products have been largely utilized by engineers and management professionals. As technological advances drive growth and innovation, Hydrocarbon Processing continues to be a trusted source of insight into global industry trends.

Industrial Bolting System Tool
Hytorc, Division of UNEX Corp / BOOTH 829

HYTORC’s industrial bolting systems are hydraulic, pneumatic and battery powered tools and unique revolutionary fasteners, such as a proprietary washer and nut that makes all bolting work at the plant safer, faster and of higher quality. They reduce bolting time by 50% or more, require less people to do the job, saving a lot of time and money while getting the equipment and plant on line faster, producing product and generating revenue and profits. Since they provide for a much higher quality bolting job, it reduces the possibility of unscheduled down time caused by leaks and other bolting related issues. One product is their revolutionary convenient and portable, battery powered Lithium Gun with torque ranging from 35 Ft. Lbs. – 3,000 Ft. Lbs.
Additive Manufacturing Ceramic Technology (3D Printing)

*Kyocera International Inc. / BOOTH 730*

This new technology allows for strength optimization while also implementing weight reduction into your Ceramic components.

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PVDF Cable Ties

*Nile Polymers, Inc. / BOOTH 808*

Designed for UV, chemical and gamma resistance at elevated temperatures, Nile Polymers’ Strong-Tie™ cable ties are made in the USA from 100% Kynar® PVDF. Manufacturing and packaging is done in a clean-room environment according to ISO 13485. PVDF also meets standards such as USP Class VI and FDA 1772600. The available sizes are up to 14” lengths.

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In Line Deflagration Flame Arrester

*PROTEGO® USA INC. / BOOTH 444*

The Protego FA-E in line deflagration arrester provides a unique and cost effective solution when used at the inlet to pollution control equipment, such as a thermal oxidizer of flare. Unlike other deflagration arresters (sometimes called “flame arresters”), the model FA-E can be used in true in line applications. For example, when configured for NEC Group C or D gasses, this device can be installed up to 50 pipe diameters from the ignition source. Like all Protego arresters, the center section is made up of unique flame filter discs, which can be cleaned or replaced individually. Deflagration arresters offer lower pressure drop and more economical cost when compared to detonation arresters.

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Rupture Disc Assembly

*Oseco / BOOTH 600*

The Oseco Safety Cartridge provides worry-free installation for critical applications in which a rupture disc assembly is advantageous for the pressure relief system. Unlike traditional three-piece rupture disc assemblies, the Safety Cartridge guarantees leak protection by completely removing the need to seal your rupture disc within a holder. These high performance one-piece units eliminate maintenance complexities, such as torque control and incorrect installation, while also reducing time and labor expense. This rupture disc solution is effective and easy to install. This patent pending design makes the Safety Cartridge the only solution available which eliminates exterior seam leakage.

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Pail with Re-Sealable Plastic Cover

*M&M Industries, Inc. / BOOTH 550*

M&M Industries introduces the Revolutionary Pail as a safe and secure package designed for reuse. It is the first ever consumer-friendly pail that creates a perpetual package. The tear band features large loops for ease of opening, and the quarter-turn thread mechanism creates a re-sealable plastic cover. It has been strength tested, is durable, features a metal handle, HDPE, tapered walls for nesting, eight-color offset printing, heat transfer labeling and IML labeling. It is also National Motor Freight Classification Item 258 Compliant. It is manufactured in five gallon containers, with a pour spout available.

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Chemical Splash Protective Clothing

*Lac-Mac Limited / BOOTH 112*

Lac-Mac’s products offer liquid-proof splash protection from various organic and inorganic chemicals, with a high level of breathability and comfort. Their garments are NFPA 1992 certified and are available in a variety of performance attributes, such as high-visibility and flame-resistance, as well as electric arc properties.

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Epoxy Lining System

*Stonhard / BOOTH 716*

Stonhard’s Stonchem 541 is formulated for primary and secondary containment applications designed to resist a broad range of chemicals, such as fuels, salts, alkalis and many acids. Spray applied, it offers high impact resistance, has superior adhesion to concrete and is the perfect solution for storage tanks, wastewater clarifiers, plating tanks and catwalks.