

# Process Equipment and Engineering



Chemetall's Process Equipment and Engineering designs and engineers systems of the highest quality, reliability, and advanced technology to monitor, control, dispense, and treat the Chemetall chemicals on which you depend. By providing a unified approach, systems can be easily integrated into your existing processes to enhance efficiency, optimize operational performance, and minimize waste, cost, and downtime.

## Enjoy the benefits and value

- ⊕ Expert regulatory compliance knowledge.
- ⊕ CAD design capabilities.
- ⊕ On-going technical support.
- ⊕ Higher throughput, efficiency, quality, and profitability.

**BASF**  
We create chemistry

**Chemetall**  
expect more<sup>⊕</sup>

Our expert service and customizable systems will achieve results for you. We are dedicated to maximizing your process efficiency and minimizing your costs.

PUMPS	
<b>Drum Pumps</b>	Air and electric bin, drum, and pail pumps with flow rates to 40 GPM at pressures up to 35 PSI.
<b>Metering Pumps</b>	Air, electric, hydraulic diaphragm, and peristaltic metering pumps with flow rates to 100 GPH at pressures up to 1,000 PSI.
<b>Transfer Pumps</b>	Air and electric transfer pumps with flow rates up to 600 GPM at pressures up to 130 PSI.
<b>Conveyor Lubrication System</b>	Stainless steel and thermoplastic air, water, or electric powered systems capable of delivering prediluted lubrication solutions to conveyors at flow rates up to 20 PM at dilutions up to 5%. Accessories include nozzles, brackets and fittings for a complete system.
<b>Defoamant Feed Systems</b>	Air, water, and electric operated systems for prediluting concentrated defoamant and delivering flow rates up to 40 GPM at concentrations up to 50% by volume.
PROPORTIONERS	
<b>Chemical Injectors</b>	Stainless steel, brass, and thermoplastic injectors capable of delivering up to 100 GPM of chemical at dilution rates up to 50% by volume.
<b>Proportioners</b>	Air and water driven chemical proportioners capable of delivering flow rates to 30 GPM at concentrations up to 50% by volume.
WASHERS	
<b>Parts Washers</b>	Agitating and spray washers are available in stainless steel and carbon steel with solution capacities to 2,500 gallons and load capacities up to 2,000 pounds.
<b>Foamers</b>	Stainless steel and thermoplastic foam delivery systems capable of delivering foam concentrations up to 20% with flow rates up to 4 GPM. They are available in portable, stationary, and central systems.
<b>Steam Cleaners</b>	Electric steam cleaning systems and accessories with capacities up to 25 horsepower at pressures up to 100 PSI. Accessories include steam guns, nozzles, and hoses.
<b>Tank Cleaning Units</b>	Stainless steel and thermoplastic tank cleaning units are available for cleaning tanks from 1 to 25 feet in diameter at flow rates from 4 to 400 GPM.
<b>Heavy Metal Removal Systems</b>	Electric and air powered chrome, zinc, and iron mixed resin bed ion removal systems with capacities up to 14 cubic feet, designed to remove heavy metals from rinse waters.
<b>Sanitizing Systems</b>	Air, water, and electric operated doorway and process spray systems for prediluting concentrated sanitizers and delivering flow rates up to 40 GPM at concentrations from 50 PPM up to 10% by volume.
SPRAYERS	
<b>Pressure Sprayers</b>	Hot and cold high pressure spray systems with capacities up to 5 GPM and pressures up to 2,500 PSI. Available in portable and stationary styles with electric, diesel, kerosene, or propane burners available as the heating source.
<b>Spray Nozzles</b>	Threaded or clip on style nozzles are available in stainless steel, brass, or thermoplastic nozzles for most cleaning and metal treatment processes.
<b>Spray Systems</b>	Pneumatic and electric coolant spray systems are available for most stamping operations. Systems can accommodate up to 5 nozzles with flow rates up to 5 cc's per nozzle.

## Exceeding Expectations in Your Market

- ⊕ Aerospace
- ⊕ Agricultural, Construction, and Earth Moving (ACE)
- ⊕ Appliances
- ⊕ Architectural
- ⊕ Automotive Components
- ⊕ Automotive OEM
- ⊕ Coil — Steel and Aluminum
- ⊕ Cold Forming
- ⊕ General Industry
- ⊕ Glass Processing
- ⊕ HVAC
- ⊕ Metal Fabrication
- ⊕ Metal Packaging





## PROCESS CONTROL

<b>Conductivity Meters and Controllers</b>	Microprocessor based conductive and toroidal conductivity meters and controllers are available with relay and analog outputs for most industrial processes. They are available in both industrial and lab style.
<b>pH Meters and Controllers</b>	Microprocessor based industrial and lab style pH meters and controllers are available with relay and analog outputs for most industrial processes.
<b>Refractometers</b>	Hand held visual, digital and in-line refractive index measuring devices with ranges from 0 to 50 Brix are available for most metalworking applications. In-line systems have both digital and analog outputs.
<b>Temperature Meters and Controllers</b>	Microprocessor based industrial and lab style temperature meters and controllers are available with relay and analog outputs for most industrial processes.
<b>Process Heaters</b>	Electric, water, and steam drop in or permanently mounted immersion heaters are available in stainless steel, carbon steel, quartz, or Teflon coated stainless steel for most industrial applications.
<b>Solution Evaporation Systems</b>	Stainless steel and thermoplastic heated and atmospheric evaporation systems with evaporation rates up to 3,000 gallons per day. Systems are available in electric, steam, or gas heating systems. Condensers are available to recondense and reuse water from evaporation.
<b>Cooling Tower Control Systems</b>	Conductivity, ORP, and pH systems with single and dual biocide feed timers for controlling chemical additions, TDS, and corrosion in open and closed cooling tower systems.
<b>Boiler Control Systems</b>	Conductivity, ORP, and pH systems for controlling chemical additions, TDS, and corrosion in high pressure and low pressure boilers with bottom or surface blowdown systems.
<b>Bulk Delivery Systems</b>	Stainless steel, carbon steel, and thermoplastic bulk delivery tanks and feed systems in sizes from 5 to 12,000 gallons and transfer rates up to 200 GPM. Feed systems can be air or electric operated.

## DATA COLLECTION

<b>CODACS Systems</b>	Chemettall's Original Data Acquisition and Control System combines the control system with the data acquisition and statistical control to provide a complete package for our customers.
<b>Data Acquisition Systems</b>	Stand alone or computer assisted windows explorer based data acquisition and control systems with single unit capacities. More than 60 input/output channel combinations and multi-system combinations up to 256 input/output channels.
<b>Level Controllers</b>	Contacting and ultrasonic industrial level controllers and monitors are available in conventional or loop power with relay and analog outputs for most styles of process tanks.

## OIL REMOVAL SYSTEMS

<b>Oil Removal Systems</b>	Stainless steel and thermoplastic disk, belt, and coalescing style oil removal systems for most industrial applications in cleaner and metalworking fluids tanks from 5 to 50,000 gallons.
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## FILTRATION SYSTEMS

<b>Filtration Systems</b>	Stainless steel, carbon steel, and thermoplastic bag, cartridge, disk, and media filtration systems with flow rates from 1 to 24,000 gallons per hour with micron sizes from 1 to 400.
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## WASTEWATER TREATMENT SYSTEMS

<b>Wastewater Treatment Systems</b>	Batch and continuous flow wastewater treatment systems for most industrial processes. Batch systems are available up to 10,000 gallons and continuous flow up to 400 GPM.
<b>Reverse Osmosis</b>	Custom designed RO systems are available with flow rates up to 38,000 gallons per day. Systems include storage tanks, softeners, carbon filters, and membranes.

## Integrated Portfolio of Innovative Products

- + Anodizing
- + Cleaners
- + Coil Coatings
- + Conventional Conversion Coatings and Thin Film
- + Glass Processing
- + Lubricants
- + Metalworking Fluids
- + Non-Destructive Testing
- + Paint Detackification
- + Paint Stripping
- + Rust Preventives
- + Sealants
- + Water Treatments





***Cut it. Clean it. Coat it. Control it. Conserve it.® with us!***



***Trust our expert service and systems to achieve your goals.***

At Chemetall, we are dedicated, so you can expect more. Our global specialists are locally available. Our experts provide focused, passionate, and accountable support. You can expect the highest quality from our integrated portfolio of innovative products. Our labs are fast and accurate. We will collaborate with you to increase the efficiency of your process performance.

We are the Surface Treatment global business unit of the Coatings division of BASF, operating under the Chemetall brand, a leading supplier of applied surface treatments and services for metal, plastic, and glass substrates in a vast range of industries and end markets. As process innovators, fully dedicated to your success, we develop, manufacture, and provide best-in-class technologies, systems, and expertise.

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