

KONTEK Ecology Systems Inc.

Wastewater Treatment & Recovery Technologies

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Automatic Batch Treatment Systems BTS Series

Kontek Batch Treatment Systems (BTS) incorporate the highest standard of components and are engineered to meet the most stringent treatment requirements.

Kontek BTS have been successfully integrated into numerous industries including, metal finishing, printing and paperboard, oils and coolants, and chemical processing.

Each system is specifically designed to minimize operator requirements, incorporating PLC controlled automatic, and programmable treatment recipes. Each batch treatment reactor is equipped with a heavy duty variable speed mixer, pH/ORP controls as required, pulse proportional reagent feed for acid and caustic, coagulant additions as required, and automatic polymer additions. Depending on the specific application, solids are processed through a Kontek filter press, or an automatically indexing flat bed filter. Final effluent is pH monitored, and polished prior to its discharge.

Kontek's "SmartLogic" PLC control systems are equipped with online text troubleshooting, have data tracking capabilities, can be equipped with Ethernet or modem connections, incorporate redundant pH/ORP probes, and processing setpoints are completely adjustable from the system's HMI.

Kontek BTS are equipped to treat the most difficult types of batch treatments, ensuring that water quality expectations, and strict environmental discharge limits, are continuously met. Incorporating a Kontek BTS system in your wastewater management system will ensure that you utilizing the most current technology available on the market.

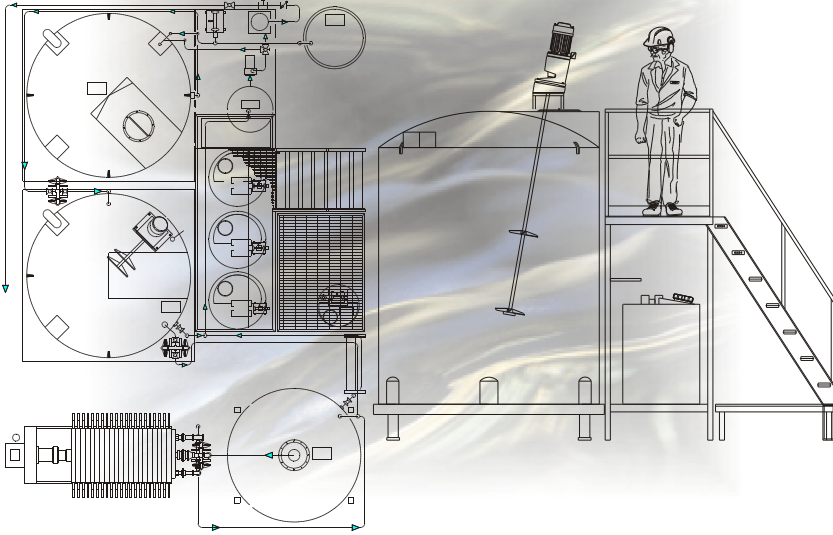
BTS Automatic Treatment Systems Feature:

- Skid mounted modular design allowing for cost effective installation and operation.
- Capacities ranging from 250 gallons to 5000 gallons
- PLC/HMI interface with recipe driven programmable controls.
- Double diaphragm pulse proportional controls for all automatic reagent additions.
- Ultrasonic level controls for automatic transferring of solutions, and high level prevention.
- Polyethylene, stainless steel, or fiberglass batch reactors depending on each specific application.
- Control systems are mounted in Nema rated enclosures, certified with the Electrical Safety Authority, or CSA.
- Heavy duty, long life, variable speed electric or air mixers are specifically specified for each application.



Industrial Applications Include:

- Metal finishing wastewater and/or spent concentrated process solution
- Flexographic/Lithographic and paperboard printing ink wastewater
- Petrochemical wastewater treatment/recovery
- Spent coolant, die lube, and cutting fluid solution treatment
- Textile dyeing/tanning wastewater treatment
- Ground water remediation
- Mining
- Food and beverage
- Aerospace
- BOD reduction



MODEL	SYSTEM DESCRIPTION
BTS-250-R	250 gallon treatment capacity, pre-assembled system, complete with: batch reactor and skidding, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and optional sludge thickener. The control panel is relay controlled.
BTS-250-PLC	250 gallon treatment capacity, pre-assembled system, complete with: batch reactor and skidding, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and optional sludge thickener. The control panel is PLC controlled.
BTS-500-R	500 gallon treatment capacity, pre-assembled system, complete with: batch reactor and skidding, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and optional sludge thickener. The control panel is relay controlled.
BTS-500-PLC	500 gallon treatment capacity, pre-assembled system, complete with: batch reactor and skidding, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and optional sludge thickener. The control panel is PLC controlled.
BTS-1000-R	1000 gallon treatment capacity, pre-assembled system, complete with: batch reactor and skidding, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and optional sludge thickener. The control panel is relay controlled.
BTS-1000-PLC	1000 gallon treatment capacity, pre-assembled system, complete with: batch reactor and skidding, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and optional sludge thickener. The control panel is PLC controlled.
BTS-1500-R	1500 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is relay controlled.
BTS-1500-PLC	1500 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is PLC controlled.
BTS-2000-R	2000 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is relay controlled.
BTS-2000-PLC	2000 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is PLC controlled.
BTS-4000-R	4000 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is relay controlled.
BTS-4000-PLC	4000 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is PLC controlled.
BTS-5000-R	5000 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is relay controlled.
BTS-5000-PLC	5000 gallon treatment capacity, complete with: batch reactor, operator mezzanine, chemical reagent supply, mixer, final effluent polishing, filter press, and sludge thickener. The control panel is PLC controlled.

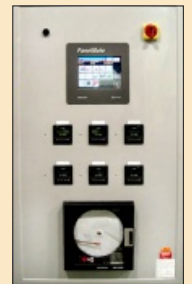
OPTIONAL Equipment

Sludge Thickening Tanks

For those applications that produce excessive quantities of sludge the BTS series system can be used in conjunction with a sludge tower for additional sludge thickening prior to sludge dewatering through the Kontek filter press.

Control Systems

Kontek offers a choice of control system options. BTS series systems can be supplied complete with Kontek's "Smart logic" PLC/HMI interface control systems or a conventional



"relay logic" control panel package. PLC controlled systems include a touch-screen operator interface, with multiple adjustable batch "recipes" to allow seamless control for variances experienced from one treatment to the next.

Effluent Discharge Pumps

Final effluent discharge tandem pump stations, supplied complete with tandem pumps, effluent collection tank, and level control systems

Duplex Batch Treatment Systems

In situations where one batch treatment system doesn't meet wastewater processing requirements, Kontek can supply duplex batch treatment systems. Units are skid mounted (to 1000 gallons) and are cost effectively designed to minimize capital requirements. When ordering, add a "D" to the models numbers provided for duplex BTS systems.