

Providing exceptional engineered solutions and services since 1940

INDUSTRIAL DIVISION & COMMERCIAL DIVISION

Water

MECO Systems

Custom shop fabrication services including pre-fabricated fire pump systems, booster pump systems, sludge heating systems, heat transfer & filtration packages

Wastewater

CENTRIFUGAL PUMPS

Fluid

Aurora Pump

ANSI, centrifugal, regenerative turbine, boiler feed, end-suction, condensate, horizontal split case, sewage, sump, fire pumps and systems

Steam

BJM Pumps

Shredder pumps, also called cutter pumps (SK-series), are designed to shear debris before pumping. The submersible vortex pumps (SV-series) pass the entire solid. Single vane impeller pumps (S-series) are designed to pass effluent, dirty water with some solids.

RS Corcoran Co.

Process and custom pumps in stainless steel and exotic metals

Cornell Pump Co.

Heavy-duty centrifugal and non-clog pumps, food pumps, hot oil pumps

Fairbanks-Morse

Vortex, chopper, vertical turbine, vertical mixed-flow, vertical axial flow, split case, and both split case and vertical turbine fire pumps

Flux Pumps/Renner Pumps

Drum pumps, horizontal and vertical chemical pumps

Hydromatic Pump

Submersible non-clog, vortex, grinder and self priming solids handling pumps

Layne/VertiLine Pumps

Vertical turbine, mixed flow and propeller pumps

Myers Pump

Submersible non-clog, vortex, grinder and self priming solids handling pumps

March Manufacturing

Seal-less, magnetically-driven chemical pumps

National Pump Co., LLC

Vertical turbine, submersible vertical turbine in cast iron and alternate metallurgies

POSITIVE DISPLACEMENT PUMPS

LobePro

S-Series (sludge/slurry and general use) pumps, C-Series (chemical/and corrosive resistant) pumps, and D-Series (duplex pumps and abrasive applications)

Sydex Pumps

Progressive Cavity Pumps

Desmi Rotan

Internal gear pumps, state-of-the-art magnetic drive internal gear pumps

Edwards

High performance rotary gear pumps for fire protection and industrial applications

Neptune Chemical Pump Co.

Hydraulic diaphragm and solenoid operated metering pumps, accessories & systems, polymer mixing systems

Myers-Aplex Pump

Reciprocating pumps, pressures up to 5,500 psi and flows to 600gpm, temperatures to 450°F, pump a wide range of fluids

HEAT TRANSFER

Advanced Coil Technology, Inc.

Process finned tube steam and circulating coils and systems

Delta Cooling Towers, Inc.

Energy efficient, non-corrosive cooling towers, induced draft and forced draft

Corporate Office

P.O. Box 689 | 1301 Industrial Dr.
Matthews, NC 28106
P: 704.847.2100 | F: 704.847.2349

Raleigh Office

5711 Six Forks Road, Suite 106
Raleigh, NC 27609
P: 704.847.2100 | F: 919.844.2030

Greenville Office

P.O. Box 758 | 510 Palmetto Dr.
Simpsonville, SC 29681
P: 864.967.3420 | F: 864.963.4784



HEAT TRANSFER CONTINUED

KAM Thermal Equipment, LTD	Custom shell & tube heat exchangers
Mechanical Equipment Co.	Custom skid-mounted heating, isolation and temperature control systems
SWEP	CBE compact brazed heat exchangers
Tranter PHE, Inc.	“Superchanger” plate & frame, “Maxchanger” and “Supermax” welded shell & plate heat exchangers, “Platecoil” prime surface heat exchangers, spiral exchangers

ROTARY UNIONS & STEAM SPECIALTIES

Deublin Company	Rotary unions for water, steam, air, hydraulic, hot oil, vacuum, coolant, custom applications; Deublin SINT rotating joints & siphons for the paper industry
Deublin Steam Systems, LLC	Paper machine studies, paper machine dryer software, turnkey dryer section steam and condensate systems, design and installation and services
Spirax Sarco, Inc.	Steam traps, pressure-powered pumps, control valves, steam system components

PROCESS, FILTRATION & WASTE TREATMENT EQUIPMENT

Amiad/PEP/ARKAL	Filtration Equipment: manual, fully automatic self-cleaning and multimedia macro filtration and TSS reduction to 3 micron, sand filters
BioProcess H20	bioFAS™ looped cord media, MBBR media systems, bioFLOW™ tubular membrane systems, bioPULSE™ Airlift™ tubular membrane systems, bioTRIPURE™ hollow fiber ultrafiltration systems
Delta Environmental Products	Packaged treatment plants, pumping systems, drip irrigation
DrM	Tubular pressure filtration on candle filters — wet or dry discharge, batch or continuous operation, patented heel volume filtration & precious material recovery
EDI	Aeration systems — fine bubble, coarse bubble diffuser systems
IPEC	Wastewater screening, conveying, washing and compaction equipment and sludge thickening equipment
Nijhuis	Primary treatment systems—gravity separators, DAF’s, secondary treatment, tertiary treatment
PW Tech	Volume dewatering press for sludge dewatering, “SAF” submerged fixed film bio-reactor, raked bar screens for CSO/SSO
Aqua Azul	Innovative ultraviolet radiation equipment for disinfection and chemical reduction

CONTROLS & COMPLIMENTARY EQUIPMENT

EATON	Low & medium voltage VFD’s, motor control centers
EG Controls	Custom pump control systems, “DigiGage” panels
OCV Valves	Control Valves: pressure, differential, reducing, back pressure and altitude
CLA-VAL	Air release valves
Southeastern Hose, Inc.	Flexible metal, composite, sanitary, Teflon & jacketed hose pump connectors
QuantumFlo	Booster pump packages

TANKS

Tank Connection	RTP bolted tanks coated with LIQ fusion 7000 FBE or stainless construction, shop and field-welded tanks
Houston PolyTank, LLC	High density linear polyethylene and polypropylene tanks.

MECO SERVICES

Mechanical Equipment Co.	Certified pump repair, start up and field services
--------------------------	--

Providing exceptional engineered solutions and services since 1940

Water

Wastewater

Fluid

Steam

MUNICIPAL/ENVIRONMENTAL DIVISION



Custom shop fabrication services including pre-fabricated booster pump systems, lift stations, sludge heating systems, heat transfer & filtration packages, start-up and repair.

CENTRIFUGAL PUMPS



ANSI, centrifugal, regenerative turbine, boiler feed, end-suction, condensate, horizontal split case, sewage, sump, fire pumps and systems.



Shredder pumps, also called cutter pumps (SK-series), are designed to shear debris before pumping. The submersible vortex pumps (SV-series) pass the entire solid. Single vane impeller pumps (S-series) are designed to pass effluent, dirty water with some solids.



Custom pumps in stainless steel and exotic metals.



Clear liquid, solids handling, submersible, vortex and Redi-Prime® pumps.



Seal-less magnetically-driven chemical pumps.



Vertical turbine, submersible vertical turbine in cast iron and alternate metallurgies.

POSITIVE DISPLACEMENT PUMPS



S-Series (sludge/slurry and general use) pumps, C-Series (chemical/and corrosive resistant) pumps, and D-Series (duplex pumps and abrasive applications).



Progressive cavity and screw pumps.



Chemical feed pumps, packages, abaque peristaltic pumps, polymer mixing stations.

HEAT TRANSFER



Superchanger® plate & frame heat exchangers, spiral & welded shell & plate.

Corporate Office

P.O. Box 689 | 1301 Industrial Dr.
Matthews, NC 28106
P: 704.847.2100 | F: 704.847.2349

Raleigh Office

5711 Six Forks Road, Suite 106
Raleigh, NC 27609
P: 704.847.2100 | F: 919.844.2030

Greenville Office

P.O. Box 758 | 510 Palmetto Dr.
Simpsonville, SC 29681
P: 864.967.3420 | F: 864.963.4784



PROCESS & WASTE TREATMENT



Bar Screens: *multi-rake, claw/rack & pinion, catenary, deep rake, traveling water*, fine screens, rectangular clarifiers, conveyors, grit collectors & classifiers, bucket elevators, sludge collectors, live bottom bins, screw compactors, screw presses.



Packaged treatment plants, effluent pumping systems, drip irrigation.



Deskins patented quick-dry dewatering process—RapidFloc Mixer.



Wastewater Screening: internally fed screens, in-channel conveyor screens/washers, sludge thickeners, screw presses & conveyors, static screens, de-gritters, septage receiver stations.



Primary Treatment Systems NFS: filter systems, Gravisep (gravity separators), NCF-coagulation & flocculation, Optiflot flotation systems. *Secondary Treatment Systems:* Bioctor (aerobic biological treatment systems), Anocor (anaerobic biological treatment systems). *Tertiary Treatment Solutions:* sand filters, media filters, active carbon filters, aerated activated carbon filters, disinfection & membrane systems, types MF/UF/MF and RO.



Technologies for treatment of wastewater, CSO/SSO including hybrid BNR, volute dehydrator for sludge dewatering, SAF submerged fixed film bio reactor, raked bar screens.



EPA approved Ultraviolet Disinfection and Chemical Reduction Systems for Municipal, On-Site Wastewater, Private Development, and Community applications.

COMPLEMENTARY



Custom pump control systems, “DigiGage” panels, SCADA systems.



Low voltage drives, medium voltage drives MCC's & custom controls.



Air release valves.



Control Valves: differentiating, pressure regulating, relief, back pressure and altitude.



Fusion-bonded epoxy coated bolted steel, field welded, shop welded and elevated liquid storage tanks for potable water, wastewater, fire protection and industrial liquids.



Engineered to withstand the most challenging of storage situations. Can replace Steel, Stainless Steel, Fiberglass & Roto-Molded plastic tanks. Made of either HIGH DENSITY LINEAR POLYETHYLENE (applications up to 120°F) or POLYPROPYLENE (high-temperature applications 180°F- 200°F), in thicknesses from 1/2” to 6”.