



Toll Solutions



Responsible Solutions for Your Chemical Toll and Outsourcing Needs



The Right Partner, with the Right People and the Right Equipment.

- Privately owned
- Located in Duncan, SC, (CLT/ATL) right off Interstate 85
- Modern facilities
- Toll Solutions is ISO 9001:2015 Certified and FIFRA Registered.
- Superior combination of capabilities and knowledge



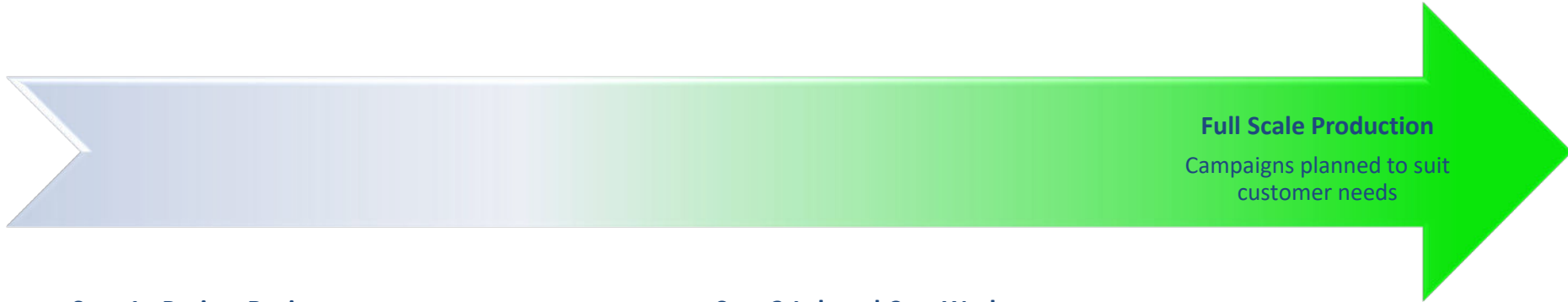
Markets and Applications



Defoamers, Softeners, Repellents, Lubricants, Coatings, Release Aids, Protection



Tolling Business Approach



Full Scale Production
Campaigns planned to suit customer needs

Step 1- Project Review

- General Process
- Major Hazards
- Volume
- NDA
- F&P

Step 2- Initial Assessment

- Review F&P
- Safety
- Capacity/Cycle Time
- Waste/Permits
- Raw Material Supply
- Toll Fee Cost
- Capital Review

Step 3-Lab and Cost Work

- Raw material samples
- Cost of raw materials
- Confirm process and quality with lab sample

Step 4- Pilot and Ramp

- Demonstrate the Process
- Refine Pricing
- Finalize Agreements



Specialty Processing Capabilities

Reactors

Reactor Room- Class I, Div II, foam suppression

R-1: 304 SS, 3,300 gallon turbine agitator, pressure, vacuum, internal coils and jacketed

R-2: 304 SS, 3,300 gallon turbine agitator, pressure rated, vacuum, full overheads, and jacketed

R-3: 304 SS, 3,300 gallon turbine agitator, pressure rated, vacuum, full overheads, internal coils and jacketed

R-4: 316 SS, 3000 gallon reactor,

BA-1: 500 gallon mixer, Mixes up to a million cps. Interchangeable Helical/Cowles

Pressure to ~75psi

Vacuum to ~25 in/mercury

Steam to 150C

Chill to 10C



Specialty Processing Capabilities

Dispersions, Emulsions, Particle Size Reduction

Vessels from 275 gallons to 5,800 gallons, 304 SS, Load Cells

Cowles Blade, Sweep Agitators, Jacketed, Coils, High Shear Mixers

Red Head Media Mills

Cherry Burrell Homogenizer

IKA Mill

Silverson

Kady Mill

Ross & Hill Mixers



Supporting Equipment

Bulk Storage Tanks - 36 each ~8,000 gallon, 304 stainless steel

Filtration – Cartridge, Bag, Sparkler, Filterpress

Solids Handling-Screening and Super sack charging systems

Deionization and Ozonation Water Treatment

Nitrogen

Hot Boxes



Quality And Safety

Certified ISO 9001- 2015

Follow ISO/TS 16949

PSM

Variety of analytical instrumentation and experienced analytical chemists

Since 10/10 to February 2023-

no recordable incidents or lost-time accidents or reportable environmental releases



Choose Toll Solutions

Value ethical business practices

Communicate directly with owner & decision makers

Long Term Relationships



Thank you for your time and attention.

Please visit our plant.

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