

Company Overview

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Company Overview

Chemical Toll Manufacturing - Focus on Catalyst Industry Unit Operations

- Solution Make-up
- Impregnation & Blending
- Drying
- Calcining

RT Supports Customers by :

- Development of test samples
 - Current producers seek short scale up – minimal development/pilot work to get to full scale volumes
- Development of process for scale-up elsewhere
 - Current producers do not share process experience so that it can be scaled up at their facility
- Scale-up and commercial volumes in the same equipment
 - Allows for quicker move to initial commercial volumes



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Typical Projects

- Catalyst recovery
 - Recoating of catalysts
 - Drying of catalysts
- Catalyst Manufacturing
 - Development Scale Catalyst Manufacturing
 - 500 kg – 5 mt
 - Littleford impregnation or blend-oven dry
- Calcining
 - Toll calcining and kiln drying
 - Standard and inert atmosphere
- Milling and screening
 - Mill & screen in conjunction with other work or stand alone



Capabilities

- Calcining
 - Electric Harper – 800C
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- Littleford Blender/Dryer
 - Hot Oil Heated
 - Vacuum capability
- PK Blender
 - Blending w/ Liquid spray



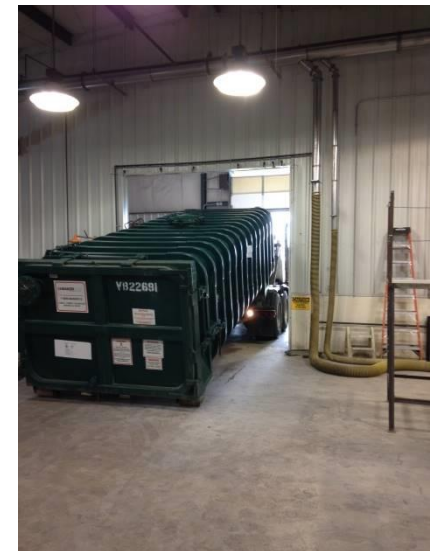
Capabilities

- Oven Drying
 - JPW industrial electric oven
 - Up to 500 F
- Fitzmill – DAS06 Mill
- Screening – 30” Sweco
- Pollution control
 - 2 stage caustic scrubber for NOX or acid vapors
 - Baghouse



Flexibility

- Rapid Response to inquiries
 - Equipment can be secured and installed quickly
- Warehouse space/availability
- Large container capability



Company Background

Structure

- Private LLC formed in 2011
- Equipment installed and start-up in 2014

Strategy

- Process development and manufacturing support

Scope

- Small scale manufacturing to support growing chemical and catalyst industry
- Provide an innovative approach to companies seeking to grow



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Location

Ohio



- 8000 ft² facility
- Wilmington Airpark
- Infrastructure
 - Power
 - Utilities
 - WWTP

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Company Programs

- ISO 9001:2008
- Safety Programs
 - Safety Training
 - Respiratory Program
 - Internal Audit
 - Safety Observations
 - Annual Local FD inspection
- Annual IH survey by BWC
- Environmental Programs
 - Air Permit reporting
 - NPDES/Storm water
 - Local WWTP permitting

