



1202 Musser Street  
Muscatine IA 52761-1645  
(563) 263-2752  
Fax (563) 263-3720

MEMORANDUM

WATER & RESOURCE RECOVERY FACILITY

To: Gregg Mandsager, City Administrator

CC: Nancy Lueck, Finance Director  
Cinda Hilger, Secretary

From: Jon Koch, WRRF Director

Date: June 25, 2019

Re: Depackaging machine purchase for HSW project

**INTRODUCTION:** The High Strength Waste Receiving Project is proceeding and it is time to purchase the large depackaging machine for the solid waste receiving portion of the operation. The WRRF has researched multiple machines and designed the project around the Scott Equipment Company T42 Turbo Separator. Scott has submitted a quote of \$336,945.00 for the complete machine including conveyors, pumps and separator. A 30% downpayment is required at this time to begin construction of the machine and components for delivery in 13-15 weeks.

**BACKGROUND:** I have researched separation machines for over 4 years during the planning of this project. I have seen the T42 in action in San Diego, CA, Hermitage, PA, and took material from Muscatine to demo in New Prague, MN, where the machines are built. I have also toured facilities using the Tiger separator in Kansas City and St. Louis, MO. The Tiger separator quote from Ecoverse is \$461,989 for the machine without pumping equipment. The SAFE system using the Biorex has limited installations that were not toured. The SAFE system quote was \$1,525,000.00.

**RECOMMENDATION/RATIONALE:** Staff recommends the purchase of the Scott Equipment T42 Turbo separator for \$336,945.00 with a 30% down payment to be made immediately to begin construction of the machine system.

**BACKGROUND:**

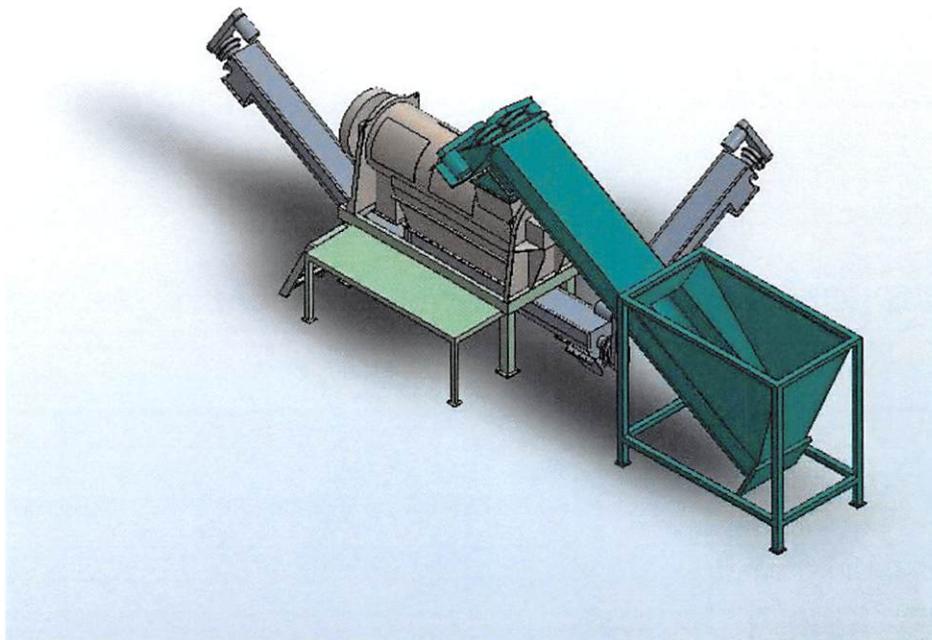
1. Scott Equipment Quote
2. Ecoverse Equipment Quote
3. SAFE Equipment Quote

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Scott Equipment Company

# T42 -Turbo Separator Proposal for:

Mr. Jon Koch  
Water Pollution Control Director  
City of Muscatine  
1202 Musser Street  
Muscatine, IA 52761



Kevin Pedretti  
605 4th Avenue NW  
New Prague, MN 56071  
June 18, 2019

Mr. Jon Koch  
Water Pollution Control Director  
City of Muscatine  
1202 Musser Street  
Muscatine, IA 52761

Dear Mr. Jon Koch:

Thank you for considering Scott Equipment Company for your waste separation and recycling needs. We are confident that you will be very satisfied with the equipment that we provide.

As requested, the following quotation is for our Model T42 Turbo Separator System.

**REV1: Updated descriptions-wet kit; pricing**

With nearly 300 Turbo Separator systems produced since 1996, we are confident in our design, performance, and durability of the full product line.

Please let me know if you would like any additional information in order to make your purchasing decision. Again, thank you for choosing Scott Equipment Company.

Sincerely,

Kevin Pedretti  
Scott Equipment Company  
952.758.2591  
[www.turborecycling.com](http://www.turborecycling.com)

cc: Mr. Pete Calderon  
VP of Sales & Marketing  
Scott Equipment Company

Quote Number: 18-1196rev1  
Date Created: 06/18/2019

City of Muscatine IA  
1202 Musser St  
Muscatine, IA 52761

Phone: (563) 263-2752  
Email: [jkoch@muscatineiowa.gov](mailto:jkoch@muscatineiowa.gov)  
Attn: Mr. Jon Koch

Lead Time: Est. 15 weeks from signed prints  
Terms: 30% - Down Payment w. Order  
20% - Midpoint  
40% Prior to Shipment  
10% Upon Acceptance\*  
Quote Validity: 60 Days  
Salesperson: Kevin Pedretti

MATERIALS TO BE PROCESSED: PRECONSUMER & COMMERCIAL FOOD WASTE  
EXPECTED RATE: 12-20 TON PER HOUR (ACTUAL MAY VARY BASED ON DENSITY)  
INLET SCREEN SIZE: 1"  
MID & DISCHARGE SCREEN SIZE: 3/4"  
  
PADDLE STYLE: T42 STANDARD  
T42 SHELL & ENDPLATE MATERIAL: T42 304 STAINLESS

## Model T42 Turbo Separator Wet/Dry System Quote Summary

Model T42 Turbo Separator w. Collection Hopper, Stand, & Front/Rear Work Platforms	Included
Engineered Control Panel For Model T42 with Variable Frequency Drives	Included
Scott Equipment Twin Screw Infeed Conveyor & Material Hopper w/Transition Assembly	Included
Scott Equipment Screw Conveyor For Waste Materials w/Transition Assembly	Included
Spare Parts Kit (Includes additional screens (8), 8 paddles) - size TBD	Included
System Commissioning and Training**	Included
Tool Kit and Manuals	Included
<b>Subtotal</b>	<b>\$243,888.00</b>
OPTION#1: 304 Stainless Upgrade Turbo-shell, endplates, hopper, collars, clamps & gussets	\$21,365.00
OPTION#2: Twin Screw Wet Kit - 304SS trough, hopper; Wet Kit with liquids management	\$19,285.00
OPTION#3: HD Organics Pump - WasteCorp PE1142 Pump (240 gpm) w/pressure protection	\$37,525.00
OPTION#4: NEMA12 to NEMA4X Controls- 304SS cabinet; washdown capable; A/C hot locations	\$4,536.00
OPTION#5: Modified Infeed Inlet to Accept Barrels PLUS Alternative 304SS Liquids Collection	\$3,206.00
OPTION#6: UPGRADE - Waste Conveyor Trough Liner Insert with HARDOX® 16" X 19'	\$2,200.00
Product Flexibility Kit (Includes additional screens (8), 8 paddles) - size TBD	\$4,940.00
<b>Total System Price with Options</b>	<b>\$336,945.00</b>

\*not to exceed 60 days past shipment from our dock

\*\*up to three days included-domestic travel only; international travel billed at cost

### Notes:

Customer is responsible for mechanical and electrical installation.  
Customer is responsible for all gear reducer lubrication required for machine startup.  
Customer is responsible for all freight charges from Scott Equipment factory in MN.

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## Model T42 Turbo Separator System Components Detail Listing

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### Turbo Separator

#### 1. Construction

- 42"D X 120"L internal dimension/formed & welded shell
- 1/2" thick carbon steel/smooth mill finish/gray enamel paint-RAL7022
- 4 qty. HD 1/2" thick, hinged door assemblies with safety slide pins
- 8 qty. std. removable & replaceable carbon steel screens for T42
- 12" HD carbon steel shaft w. 2 qty. Dodge (or similar) protected outbound pillow block bearings
- 56 qty. adjustable flow paddles/large face w. shear pin
- OPTION#1:304SST-shell, endplates, and organics hopper; 316 SST -shaft collars, clamps & gussets

#### 2. Motor

- 75HP TEFC 3ph/230/460v/60hz /1800RPM
- 1 qty.- Allen Bradley PowerFlex Variable frequency drive (see Control Panel)

#### 3. Liquid Manifold

- SMARTFLOW brand adjustable, ball valve style with 5 ports for optional liquid addition

#### 4. Collection Hopper, Support Stand, And Work Platforms

- Industrial gauge carbon steel/stand supports over 5 ton/mill finish/gray enamel paint-RAL7022
- Slip resistant steel grating work platform with safety handrails & ship style ladder
- 7 gauge carbon steel tapered organics collection hopper w/ front & rear viewing windows

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## Twin Screw Infeed Conveyor & Hopper w. Wet/Dry Options

#### 1 Construction

- Twin 16"D X 20'L tubular, carbon steel auger screws
- 3/16" thick carbon steel tub/smooth mill finish/gray enamel paint-RAL7022
- 2 qty. sealed, lower shaft bearings
- 10 gauge top cover with accessibility hatch
- Mating flange assembly for T42
- OPTION#2: 304SS upgrade on trough & hopper; Wet Kit w. liquids management w.
  - Wastecorp MiniMudsucker pump with cart w. 3HP motor
  - 12"D x 24" screw auger with 4" ANSI flange drain/ T- cleanout w. 1/2 HP motor
  - 1 qty. 3"D X 5'L Flex Hose with camlocks and ball valve shutoff (suction)
  - 1 qty. 3"D X 25'L Flex Hose with camlocks and ball valve shutoff (discharge)
  - 3" ANSI flange connection to T42

#### 2 Motor

- 2 qty. -10HP TEFC 3ph/230/460v/60hz
- OPTION#2: 1 qty. -3HP TEFC 3ph/230/460v/60hz
- OPTION#2: 1 qty. -2HP TEFC 3ph/230/460v/60hz
- 2 qty.- Allen Bradley PowerFlex Variable frequency drives (see Control Panel)

#### 3 Gear Reducers

- 2 qty. - Heavy duty cycle Dodge (or similar) gear reducer

#### 4 Hopper

- 5'W X 10'L carbon steel construction
- 7 gauge carbon steel/smooth mill finish/gray enamel paint-RAL7022
- Approximately 8 cu. yard capacity

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## Waste Packaging Conveyor

### 1 Construction

- Single 16"D X 19'L tubular, carbon steel auger screw
- 3/16" thick carbon steel/smooth mill finish/gray enamel paint-RAL7022
- 1 qty. sealed, lower shaft bearing
- Mating flange assembly for T42
- OPTION#6 - Include **HARDOX**® overlay into product contact area of conveyor trough

### 2 Motor

- 1 qty. - 7.5HP TEFC 3ph/460v/60hz
- 1 qty.- integrated motor starter, soft start (see Control Panel)

### 3 Gear Reducers

- 1 qty. - heavy duty cycle Dodge (or similar) gear reducer

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## Engineered Control Panel For T42 Turbo Separator

### 1 Construction

- All steel cabinet (approx. 72"Hx60"Wx12"D)
- UL listed/ Schematics provided
- Nema 12 for dust protection
- Nema 12 window kit to protect VFD keypads
- OPTION#4: Upgrade all to NEMA4X rating; 304SS enclosure; integrated air conditioning

### 2 Motor Controls

- 1 qty.-75 HP Allen Bradley PowerFlex Variable frequency drive w. door mount keypad
- 2 qty. -10 HP VFD's with door mount keypad for start-stop and speed control for Twin Screw Infeed Conveyor
- 1 qty.-7.5 HP across the line starter for Waste Packaging Conveyor with start-stop buttons
- OPTION#2: 1 qty. -3HP across the line starter for Wastecorp Mudsucker pump (hopper)
- OPTION#2: 1 qty. -2 HP across the line starter for Wet Kit (hopper)
- OPTION#3: 1 qty.- 10 HP across the line starter for PE1142 pump with start-stop buttons
- 24VDC Power Supply

### 3 Safety Features

- Main disconnect with lockable handle
- Raised, illuminated E-Stop & relay
- Digital amperage meter for Turbo Separator
- Analog service hour meter
- Light stack with red/green/strobing green indicators
- UL Listed w/ schematics

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## Organics Pump for T42 Turbo Separator-Wastecorp PE1142

### 1 Construction

- Duplex plunger style, piston pump for waste organics with “run dry” protection
- Upgrade Included-Vacuum & Pressure sensor gauge with auto-shutoff
- Upgrade Included-Mechanical Force Feed Lubricator for Dual Plunger Assembly-8 pint capacity
- 4” ANSI 125# flanged connector \*\*
- 1800 RPM, direct drive motor
- 2000 lbs.

### 2 Electrical

- 230/460V, 3phase
- 10 HP across the line starter for Waste Packaging Conveyor with start-stop buttons (Optional: Control Panel)

### 3 Throughput

- Rated for up to 240 gallons per minute
- 115' maximum total head

## Standard Organics Transition for T42 Turbo Separator w/Pump

### 1 Construction

- 7 gauge carbon steel with mating flange to organics screw conveyor
- Continuously welded
- 4” ANSI 125# flanged connector
- OPTION#5 - Modified inlet transition above T42 Turbo to allow 55gallon barrels to be tipped into a one-way chute; also includes a 304SS collection tank that will fit below the hopper/screens to collect glass fragments and allow for settling. The tank will include fork lift channels (for tipping/rotating). The tank will also include step weirs to enhance settling of grit. There will be two discharge ports, 4” 125# ANSI, for pump to be connected.

\*\*hoses & clamps are site design based and are not included in system price-TBD

### Notes:

Customer is responsible for mechanical and electrical installation.

Customer is responsible for all gear reducer lubrication required for machine startup.

Customer is responsible for all freight charges from Scott Equipment factory in MN.

**Assumptions:** Any item in glass packaging will be crushed. Some of the glass will pass with the organics and rest will be discharged in the waste packaging conveyor. Processing glass is not recommended due to safety and premature wear of shell, paddles, screens, and troughs.



November 29, 2018  
Proposal for: City of Muscatine, IA  
Proposal # HS-597-A

WITH THE EARTH IN MIND



# HS-55 DEPACKAGING SYSTEM



Ecoverse 1265 Lear Industrial Parkway, Avon, OH 44011 440-937-3225 [www.ECOVERSE.net](http://www.ECOVERSE.net)

Confidential pricing of Ecoverse: Ecoverse considers its customer and dealer pricing confidential and should not be disclosed to persons outside the company or authorized dealers or distributors. Proposal is valid for 30 days from issuance. City of Muscatine - HS-597-A 112918



# MACHINE SPECIFICATIONS AND STANDARD EQUIPMENT PROPOSAL

PROPOSAL #: HS-597-A  
DATE: November 29, 2018  
TO: City of Muscatine, IA  
1202 Musser St.  
Muscatine, IA 52761  
ATTN: Jon Koch

## TIGER HS-55 DEPACKAGING SYSTEM

### Dimensions

- Total length: 24' 4"
- Total width: 7' 2"
- Total height: 13' 5"
- Weight: 26,790 lbs.

### Functional details

- Rotational speed of separation shaft: 1000 rpm
- Three AC Motors
- Feed screw motor: 7.5 kW
- Squeezing group motor: 55 kW
- Dry fraction extraction motor: 2.2 kW

### Miscellaneous

- Engine compartment: Protected but accessible
- Feed screw drive: Motor reducer
- Squeezing group drive: Direct AC
- Dyeing and paint specially designed to prevent the machine from weather and food waste corrosion
- 

### Stationary frame (chassis and single wing doors)

- Legs 4' (Different sizes can be ordered based on site requirements)
- Anti-Vibrational Silent-block device
- The machine is completely made out of steel, ST 37 steel 6 mm thick plates for the body (3 mm for inspection doors)

### Feed Compartment

- Feed hopper in stainless steel with one open side for the feeding.
- Feed screw in black steel (thickness = 10 mm)
- Inspection door
- New removal system of the main feed screw
- 7 cubic yard hopper
- Hopper dimensions: 11' 4" x 6' 5"

### Squeezing Compartment



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- ¾" Separation basket made from FE S700 Iron – basket can be changed based on material type
- High speed shaft
- Replaceable wear paddles
- Hardoxed reinforced shaft

#### **Plastic extraction Compartment**

- Dry fraction extractor screw, equipped with hoisting hooks and hood

#### **Liquids**

- Double water feeding system to accept water from the grid and from other source such as a leachate recovery or rainwater source, and a clean-water line for cleaning the mill
- Solenoid valve to regulate the process water flow

#### **Electric devices and Software**

- Control panel with touch screen.
- The control panel can be remote. The choice must be declared at the order.
- The necessary wires length must be declared after the order. The price difference will be charged separately after the order.
- Soft starter for 55kW engine
- Operator panel and Electric panel
- Main Breaker
- Electric cabinet with air-conditioner
- LED light system to signal the rate of process water flow

#### **Safety**

- Safety device for the shaft that prevents any possible damages on the engine and on the belts due to accidental contaminants entrance and/or blocking.
- Rotation sensor for the 55kW engine
- Magnetic disconnection system mounted on all main doors to shut down all engines in case of accidental doors opening.
- Stairs to enter to the squeezing compartment and access to all the mechanical elements by means of wide and comfortable doors so that the personnel can enter and/or operate effectively
- Emergency stop buttons
- Safety and warning labels on all machine sides

#### **Miscellaneous**

- LED light system with green, yellow and red colors to signal the operating conditions of the machine
- Color RAL 5010 (Gentian Blue)
- Complies with all EC standards
- EC Certificate of conformity



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- EC plate with machine serial number
- Noise levels comply with the EU regulations with no need of additional noise abatement equipment – the noise level is measured according to the ISO 3744 directive
- Documentation: One paper copy and one electronic copy of the User Manual will be provided before the commissioning
- Toolbox
- Central greasing points

**Installation & Training:**

- Includes approximately 3-4 days of staff training, electrical connection and water hook-up for the Tiger.

**Price for Tiger HS-55 Depackaging System..... \$461,989.00**

Options. Please initial any options you would like included

**Wet Organic Discharge System: \$49,228.00**

- 2-cubic meter collection tank
- Auger in bottom of collection tank to move material to discharge pump
- Integrated positive displacement (PD) pump to remove and transfer organic fraction from collection tank
- Full hardware and software integration to Tiger Depack and control panel

**Dual Wet-Dry Organic Discharge System: \$74,817.00**

- 2-cubic meter collection tank
- Auger in bottom of collection tank to move material to discharge auger or PD pump
- 13' discharge auger to remove and transfer material from collection tank on incline, releasing it 6' above ground level
- Integrated positive displacement (PD) pump to remove and transfer organic fraction from collection tank
- Full hardware and software integration to Tiger Depack and control panel

**Auxiliary Anti-Bridging Auger: \$16,177.00**

- Second auger in feed compartment to further homogenize product and eliminate bridging

**Payment Terms:** 50% down payment due with order of machine, 40% due prior to shipment, balance due upon delivery.

**Delivery Terms:** F.O.B. Port of Baltimore, MD

**Taxes:** All local, state and federal taxes are the responsibility of the customer.

**Terms / Warranty:** See included Ecoverse General Terms & Conditions of Sale.

I, the undersigned, being authorized to sign on behalf of my company, agree to and authorize the purchase of the above detailed equipment under the noted and included terms & conditions.

\_\_\_\_\_  
On behalf of City of Muscatine, IA

\_\_\_\_\_  
Date

Presented and accepted by:

\_\_\_\_\_  
On behalf of Ecoverse

\_\_\_\_\_  
Date

**Ecoverse 1265 Lear Industrial Parkway, Avon, OH 44011 440-937-3225 [www.ECOVERSE.net](http://www.ECOVERSE.net)**

Notes:

**NOTES / AMENDMENTS:**

Service Contract will be invoiced to City of Muscatine, IA at \$110 USD per hour plus travel time. It is estimated that the inspection duration will last 6 hours per month. From this inspection, a report will be generated in conjunction with a proposal for any recommended spare parts.

**EXCLUSIONS (UNLESS OTHERWISE INDICATED):**

- Any offloading, rigging equipment/operators, setting of equipment, installation or startup.
- Any electrical field wiring, power distribution or disconnects. Should electrical installation be required, Ecoverse will provide upon request all required system data for equipment being supplied to customer so that customer can secure this service. However, Ecoverse will not subcontract or otherwise include it in its pricing or scope of supply. Ecoverse will coordinate with customer- secured local electrical subcontractors to perform the service, but pricing of this work will need to be invoiced directly from the subcontractor to the customer and will not be included in Ecoverse's pricing.
- Any buildings, building preparations, penetrations, foundations, support structures, alterations to
- buildings, weatherproofing, covers or enclosures.
- Taxes, fees, foreign duties, permits for local, state and/or federal compliance.
- Storage charges that may be accrued after equipment is delivered.
- Contamination in organic product, in most cases typically is less than 1% by weight, and can vary depending on each individual application.

Ecoverse will provide a factory trained service technician to supervise the installation of these units.

**NOTE:** If installation or system start up is provided, its scope will be as set forth in this document. Installation/startup is based on providing open-shop labor (either Ecoverse employees or its subcontractors) and on an uninterrupted work schedule until system is complete. Interruptions or delays caused by customer or others which necessitate return trips or extended time on site will result in additional charges to the customer. Ecoverse must be allowed unrestricted access to the work area. The customer is responsible for site readiness prior to the arrival of the installation crew/startup technician. Any delays caused by customer failing to have the site in ready condition for installation crew or startup technician may affect the completion date therefore resulting in additional charges to the customer. Once crews or technicians are on site they must be allowed to continue until completed.

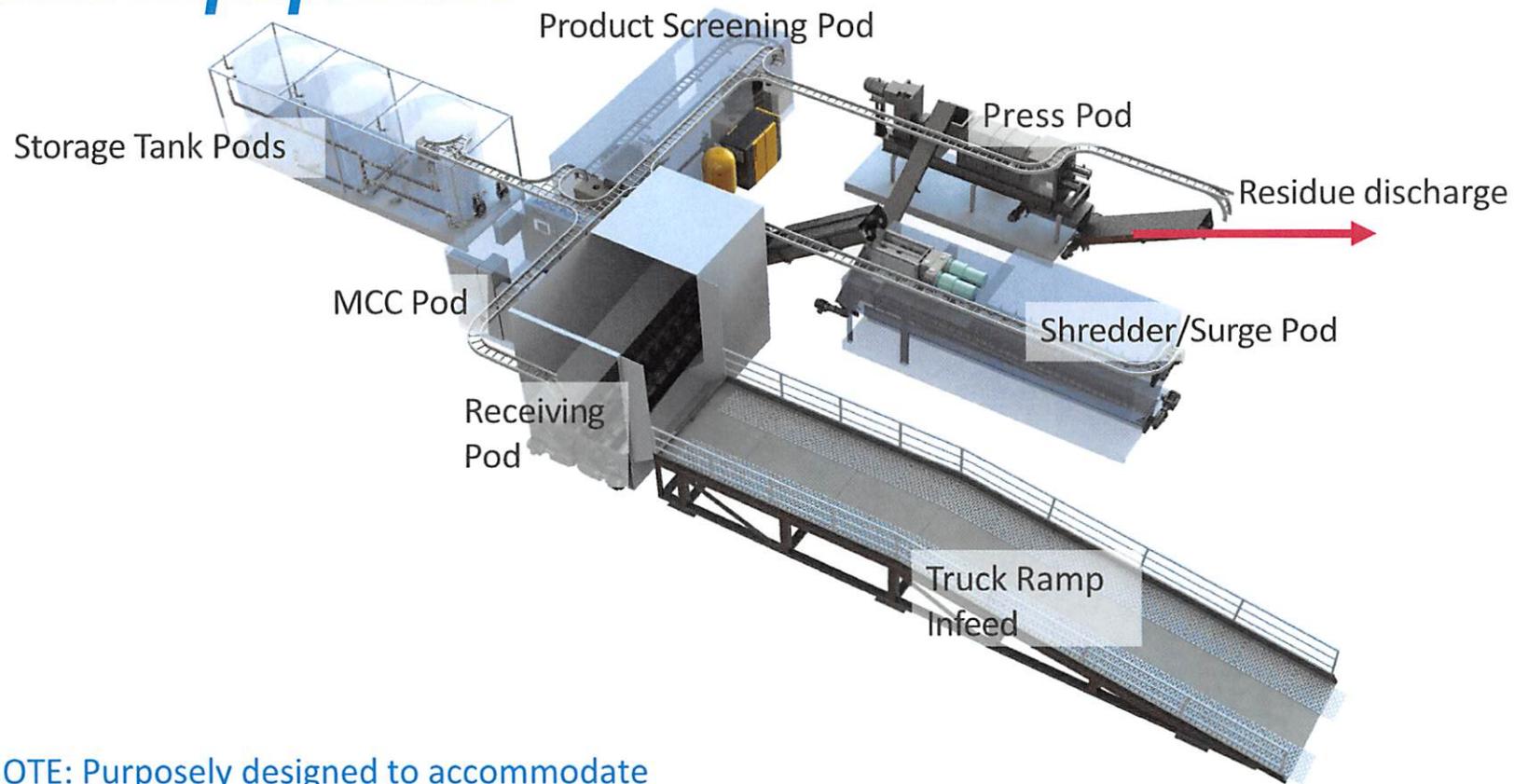
# SAFE Food Waste Pre-Processing System

Complete, Modular, Turn-Key, Food Waste Processing  
For Commercial Operators of MRF's & Transfer Stations and  
other Large Generators.

SAFE has identified and partnered with the best equipment suppliers, manufacturing and engineering companies to design, integrate, fabricate and install full functioning food waste receiving and processing systems. The following system is designed to receive food scraps from commercial or residential food scraps collection programs. Installed on a permitted municipal solid waste or waste water facility. 100% capture is our goal with separation and containment features for the food scraps, liquids and contaminates.

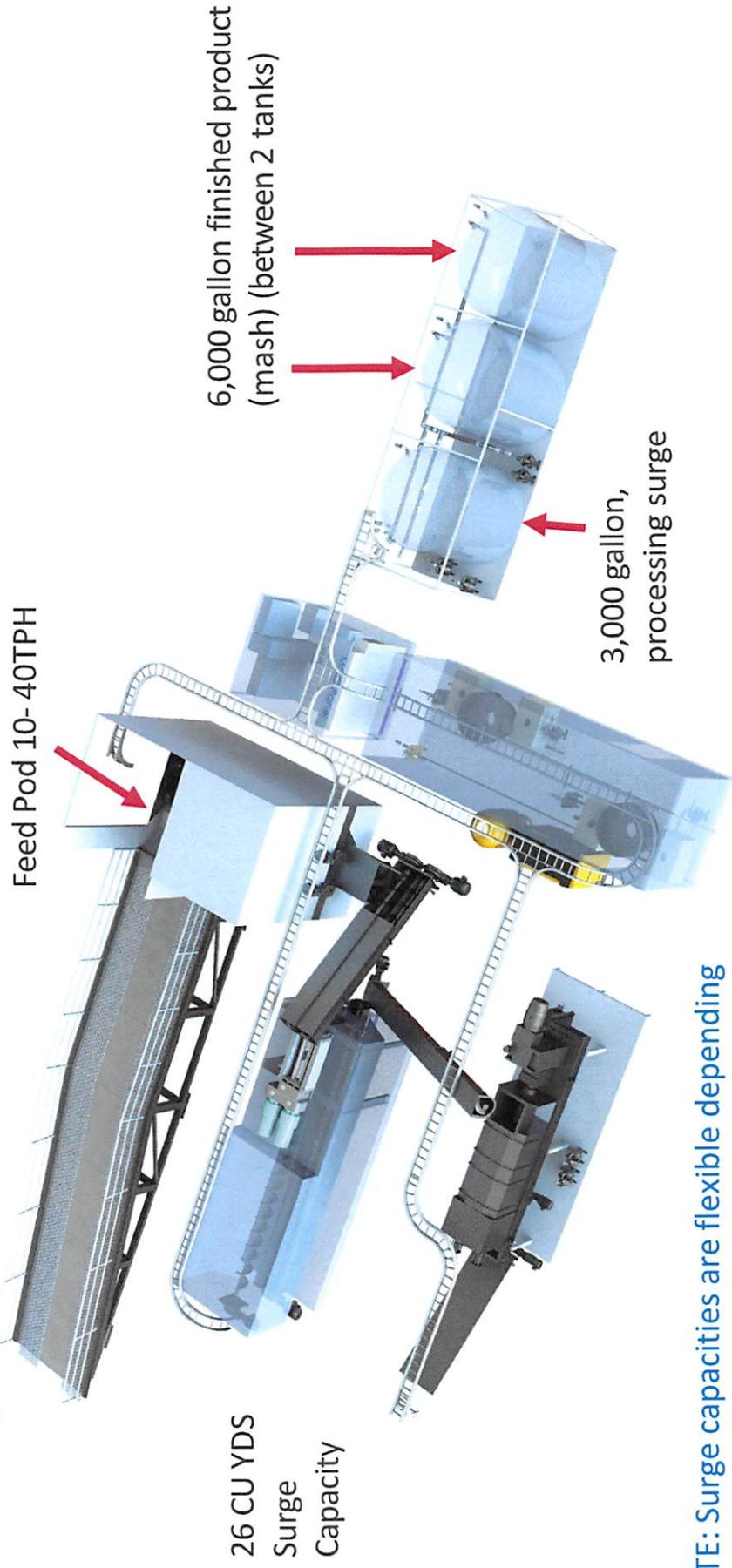


# Main Equipment



\*NOTE: Purposely designed to accommodate any configuration of "Pods" shown above.

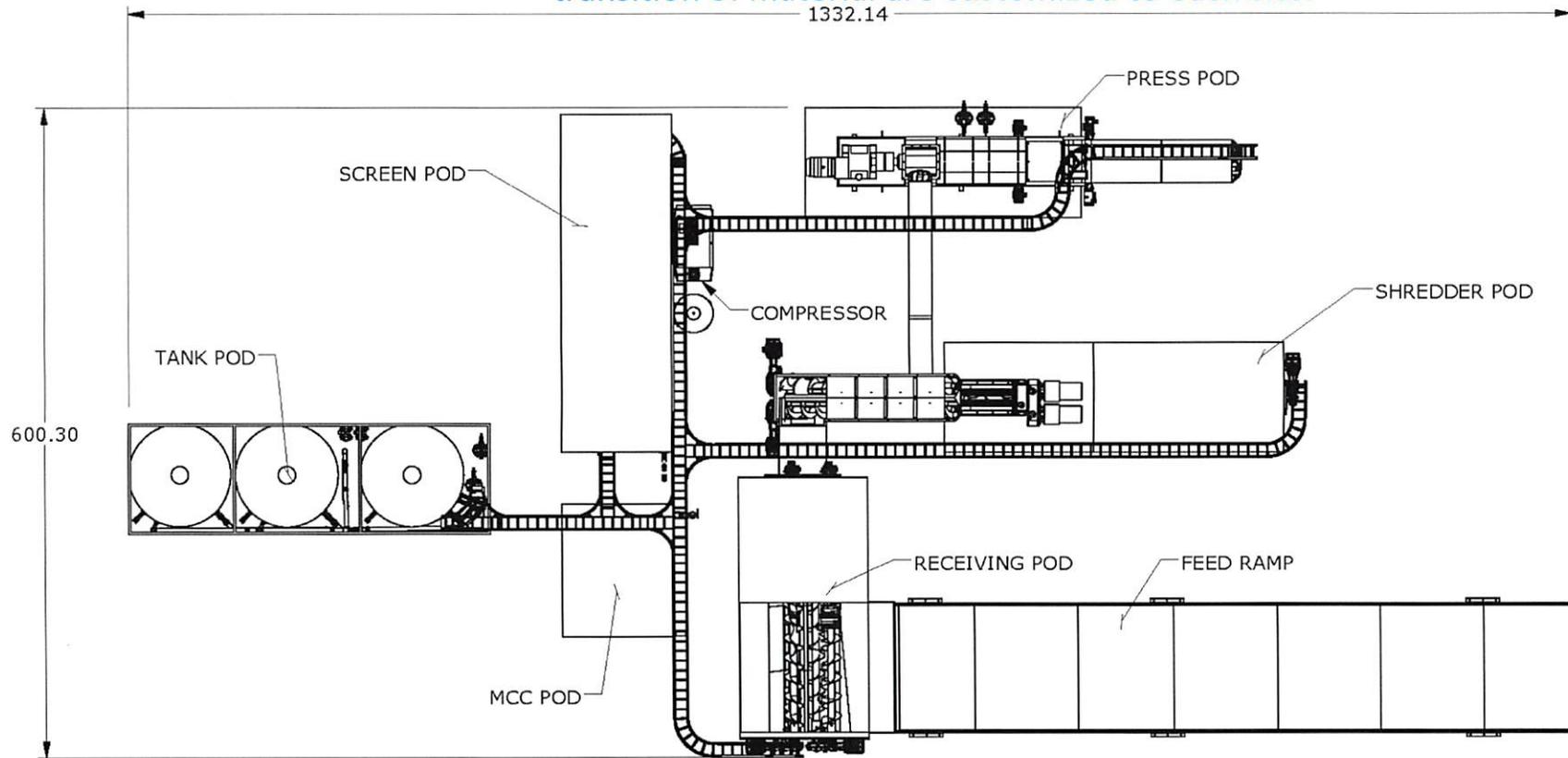
# Pod Capacities



\*NOTE: Surge capacities are flexible depending on your operational needs.

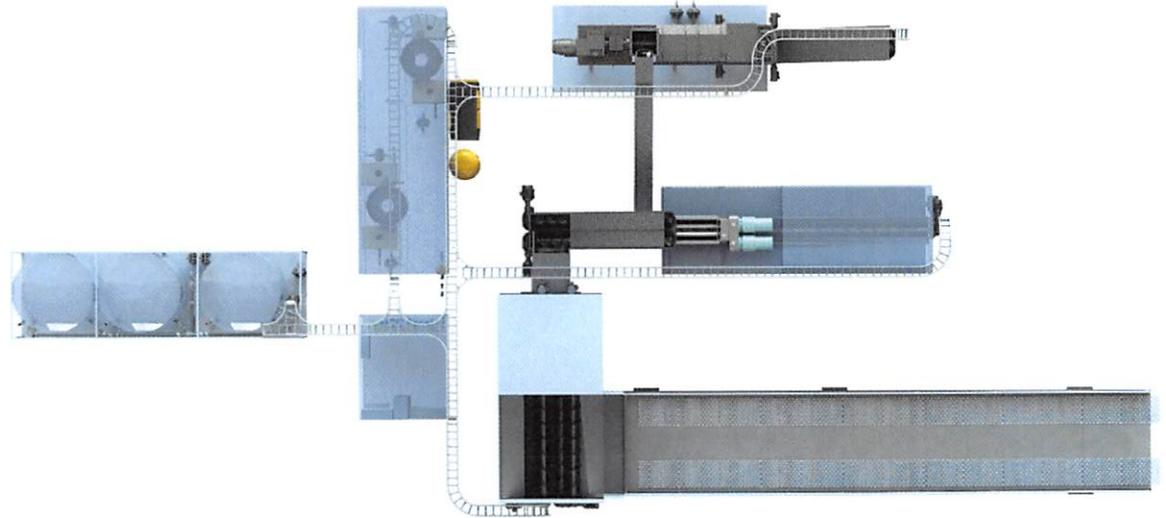
# Dimensions

\*NOTE: Purposely designed to accommodate any configuration of components shown. These dimensions are fixed and transition of material are customized to each site.



# Design Highlights

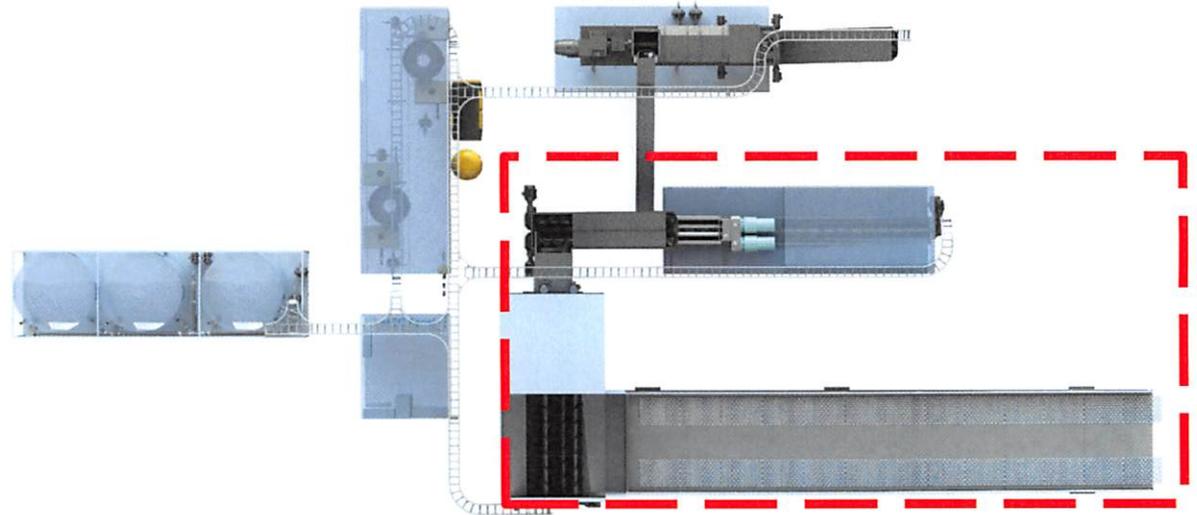
- Truck ramp off-load directly into system, no dumping. No excavation required.
- Individual pods can be configured in multiple ways to accommodate yard
- 10-20 TPH processing capacity
- Surge tank allows offloading material without processing mash (slurry)
- Programmable controls, remote access (requires WiFi).
- Fully contained transitions, w/ OSHA compliant viewports and cleanouts.
- Hot pressure washer and drains for cleanout.



# Operating Highlights

## Feedstock unloading and storage

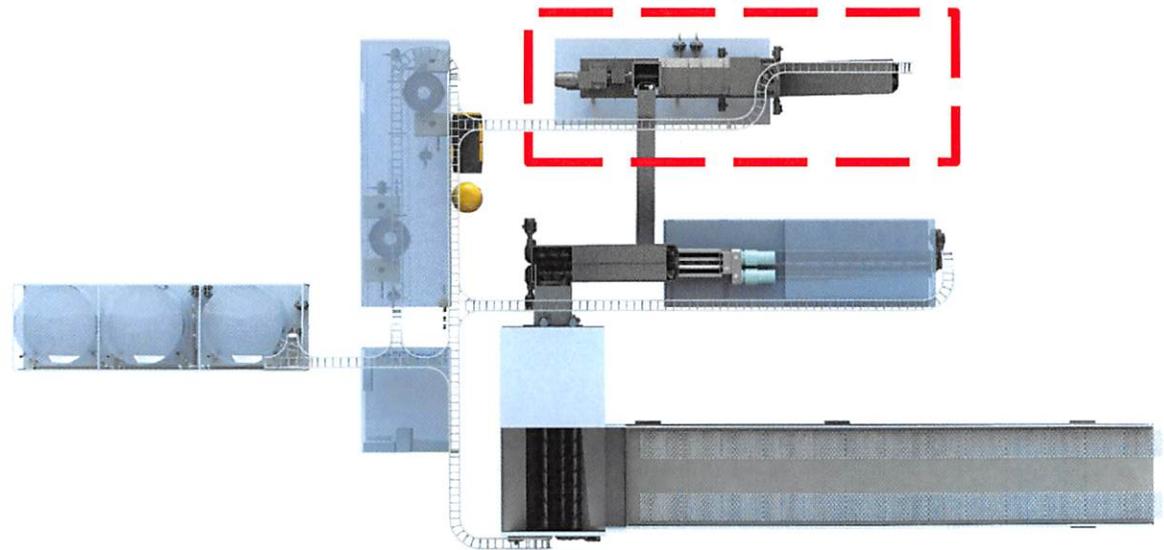
- Unloading capability of 10-15 minutes per vehicle with a 10 ton load
- HMI controls allow for individual equipment operation or as a sequential system
- 37 Cubic yards of surge capacity
- Open-end discharge screws don't wrap
- Quad screw unloading
- Dual screw feeding shredder
- Shredder capacity of 20 TPH



# Operating Highlights

## Press Pod

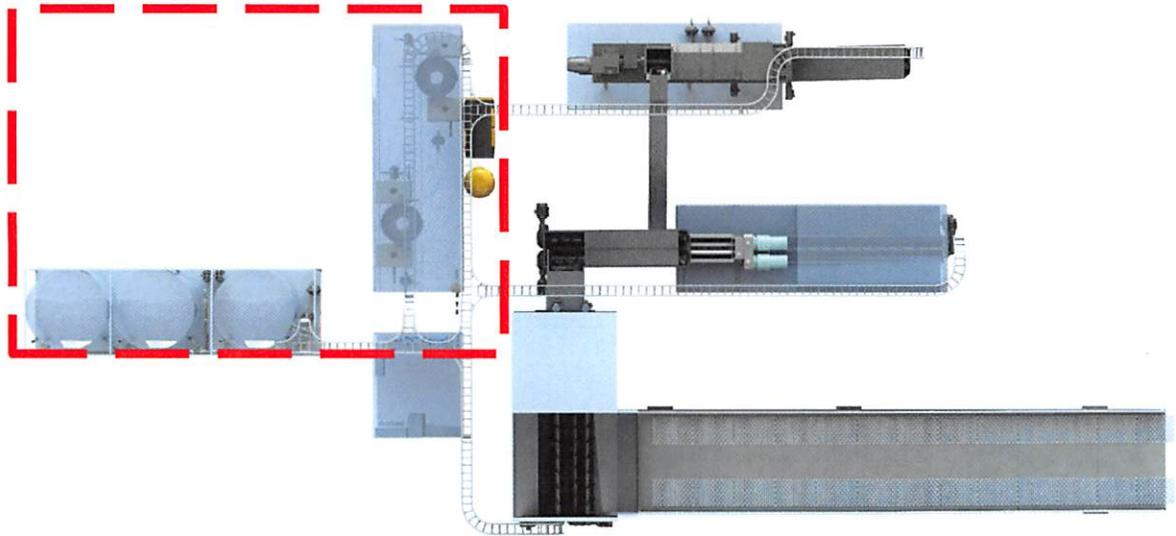
- Press can operate individually with compactor and surge tank
- Press capacity of 10 TPH
- HMI controls allow for individual Pod operation, sequentially the entire system, or from storage to mash
- Increased pump capacity to 3,000 gallon pre-process surge tank.
- The shredder and press together generate a pumpable mash for better filtration and containment.



# Operating Highlights

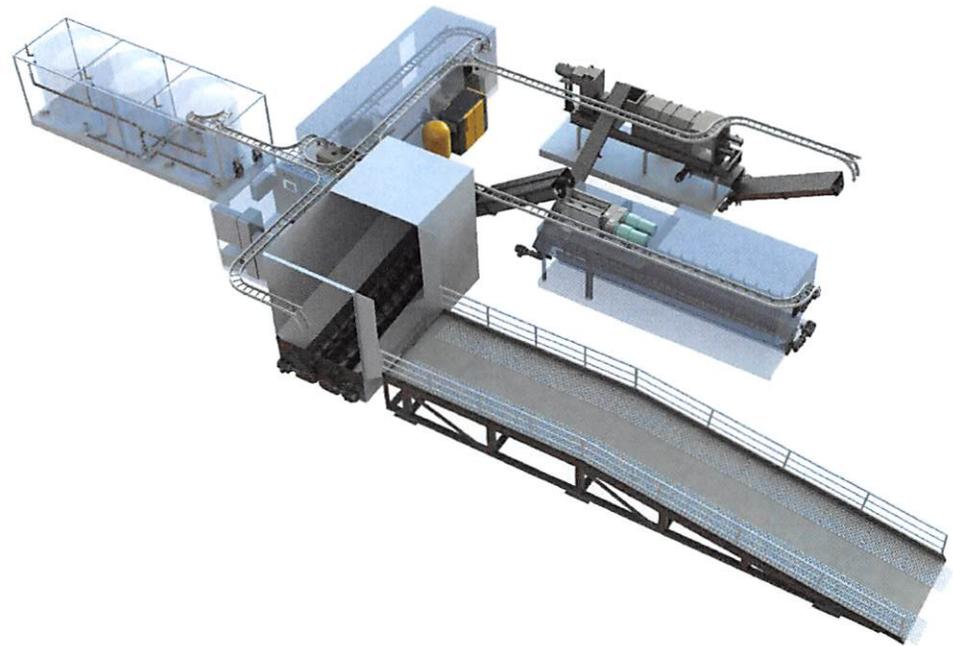
## Filtering and Mash Storage Pods

- Filters can operate independently or as a sequential system
- Dual filters for flexibility and redundancy
- Screen capacity of 5 TPH per unit or 10 TPH for the system
- HMI controls allow for individual Pod operation or as a sequential system
- 6,000 gallon capacity of mash/slurry storage
- All diaphragm pumps are the same product number for spare parts redundancy
- High efficiency screw compressor to accommodate multiple diaphragm pumps



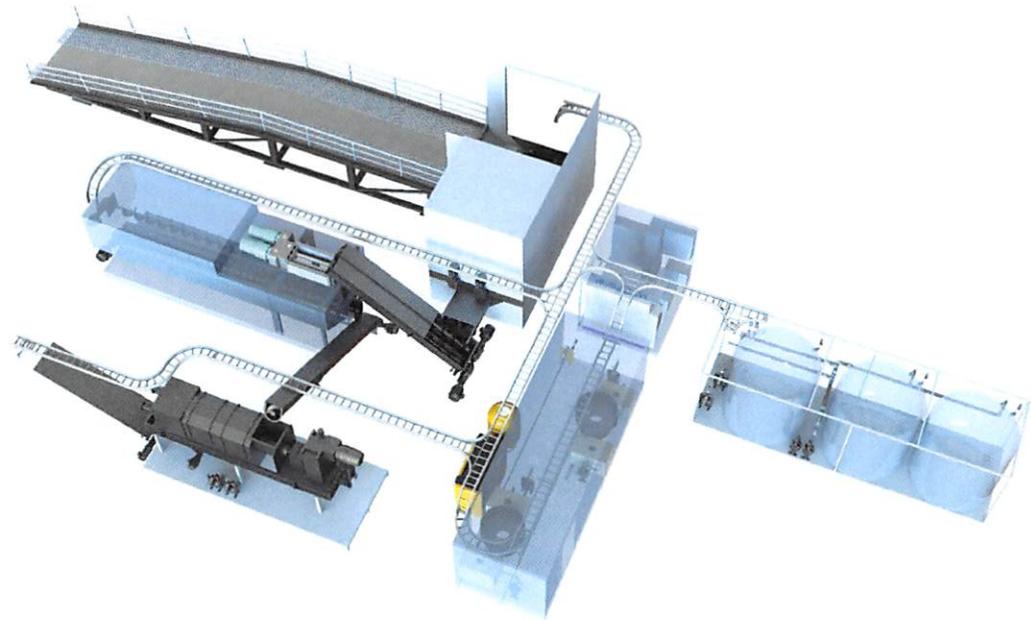
# System Cost Benefits

- Capital expenditures
  - No building required, reduced site improvements
  - System is scalable, layout is customizable
- Operational
  - Eliminate need for rolling stock and related ongoing cost
- Staffing
  - Flexibility as needed for receiving material
  - Ability to process materials when warranted for staffing efficiency



# System Cost Benefits

- Environmental
  - Capture all
  - Reduced odor issues
- Permitting
  - Reduced state solid waste permitting threshold



# Typical Proposal – Base Model

## Included:

- Base Model system specified above.
- System configuration and layout customized to site.
- In-house integration of equipment with fabricated skids, pods, conveyors, and transitions.
- Drawings required for permit submittal package.
- Fully tested integrated controls.
- Installation – set down on-site, placement, electrical point to point connection.
- Start-up, commissioning, training

## Not Included:

- Civil or structural engineering work for site preparation.
- Electrical engineering, electrical, nor network supply to control panel.
- Water supply or drainage.
- Site fire protection / sprinkler system.
- Building modifications or tenant improvements.
- Taxes.
- Freight and rigging (estimated at time of contract).
- Compactors, receptacles for separated contaminates.

# Cost Estimate – Base Model

\$1,525,000 – \$2,160,000

The base model of SAFE's Food Waste Pre-Processing system targets the expected supply of a source separated food waste collection program for a typical municipality. The cost of the system is dependent on the actual throughput requirements, and level of customization required to build, install, and operate within the local regulatory framework. Obviously there are large variations across the spectrum of municipal solid waste jurisdictions and an actual quote for a system requires waste characterization studies, parameters, and infrastructure requirements provided by local area authorities.

