



TRI-AUGER PROCESSOR

Engineered Solutions For Processing, Shredding, Blending, and Feeding Hazardous Materials

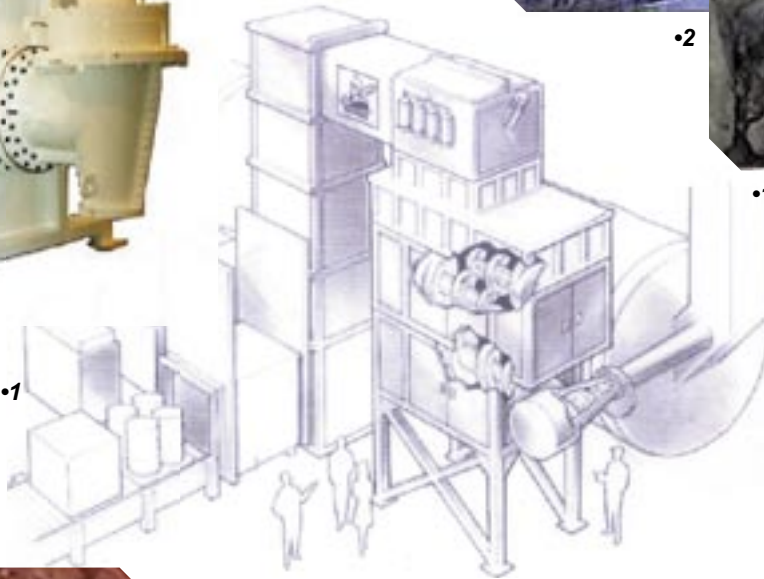
the hazardous waste processing solution



KOMAR'S patented Tri-Auger Hazardous Waste Processor utilizes a compact vertical modular design requiring a smaller footprint than other processes now in use. It incorporates a comprehensive environmental seal system that reduces personnel contact and exposure to processing materials. A wide spectrum of hazardous waste materials with varying physical and chemical characteristics including: solids, liquids and sludge with high and low BTU values and literally thousands of different compounds can be shredded, homogenized and fed in a controlled manner to a number of secondary processes.

The Process

- 1 Input Material
- 2 Process
- 3 Controlled Feed



A process of eight 55 gallon drums may be charged at one time for shredding, with up to 16 drum capacity for adding dry bulk blend material for blending. The material is discharged to the base reserve auger that maintains the primary atmospheric seal and supplies charge to the injection head. The injection head provides a secondary atmospheric seal and asserts control function for the output flow to the finish process.

Contaminated waste such as concrete, dirt, asphalt, 55 gal. drums, 85 gal. drum over-packs, oil, paint, wood, plastic truck liners, and super sacks can be mixed and processed to a homogenous blend for controlled feeding.

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Global Tri-Auger Hazardous Waste Processor

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Komar's Tri-Auger has the ability to reduce space, environmentally contain & process a wide variety of materials, and provide controlled feeding to a select assortment of engineered solutions for hazardous, low grade radioactive, bio-fuels and weapons waste systems. Komar provides a global solution to encompass a selection of designs to meet the specific needs of a variety of customers and applications.

UTILIZED BY:

- **Energy Recovery Systems Companies**
- **Hazardous Waste Processors**
 - Incineration
 - Stabilization
 - Fuel Repackaging
- **Government Contractors**
 - Low Grade Radioactive
 - Contaminated Materials
 - Weapon Destruction



Israel



Taiwan

MATERIALS PROCESSED

- | | |
|-----------------------|------------------------|
| • Hazardous Materials | • Soil |
| • 55 gal. Steel Drums | • Rocks |
| • Plastic Waste Drums | • Concrete |
| • 85 gal. Overpacks | • Wood Waste |
| • Resins | • Railroad Ties |
| • Tars | • Overpacks |
| • Filter Cake | • Super Sacks |
| • Paint Sludge | • Plastic Truck Liners |
| • Asphalt | • Tyvek Suits |
| • Clay | |



Spain



Israel



United States

BENEFITS:

- **Shred & Blend with Controlled Output Feed** in one system
- **Increased Safety** for operating personnel
- **Fully Enclosed Operating System** provides containment of fugitive emissions
- **Reduced Heat Generation** due to elimination of high speed mills or close tolerance shear blades
- **Reduced Potential for Fire or Explosion** with low speed, high turbulence auger technology
- **Controlled Atmosphere**
- **Modular Construction with Cartridge Drives** for simplified maintenance
- **High Tolerance of Tramp Material**

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Systems Located Around The Globe



England



United States



Denmark



Spain



Governmental Low Grade Radioactive Waste



Governmental Hazardous Waste System



Commercial Hazardous Waste System



Biomedical Waste

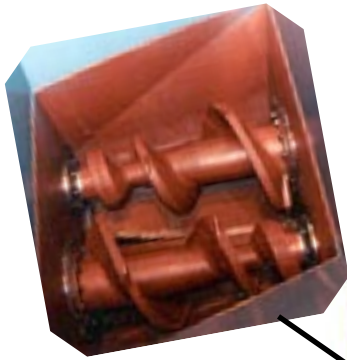
Mark Koenig, President of Komar Industries, states that "the three cantilevered auger screws are the basis of this remarkable technology; simple, energy efficient, and durable with their 16" solid steel shafts, 4" process flights and 8" charge flights." Adding an optional injector screw gives you fine output feed control required by most systems.

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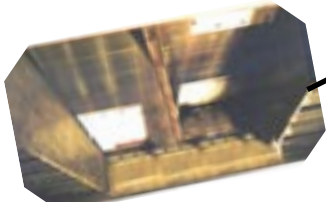
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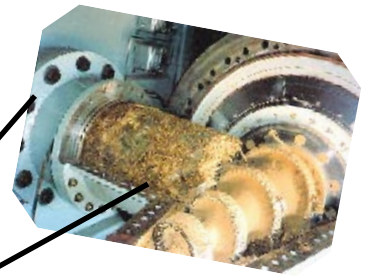
* Dual Auger
Pre-breaker & Blender



Optional: * Air Lock



* Batch Isolation Doors

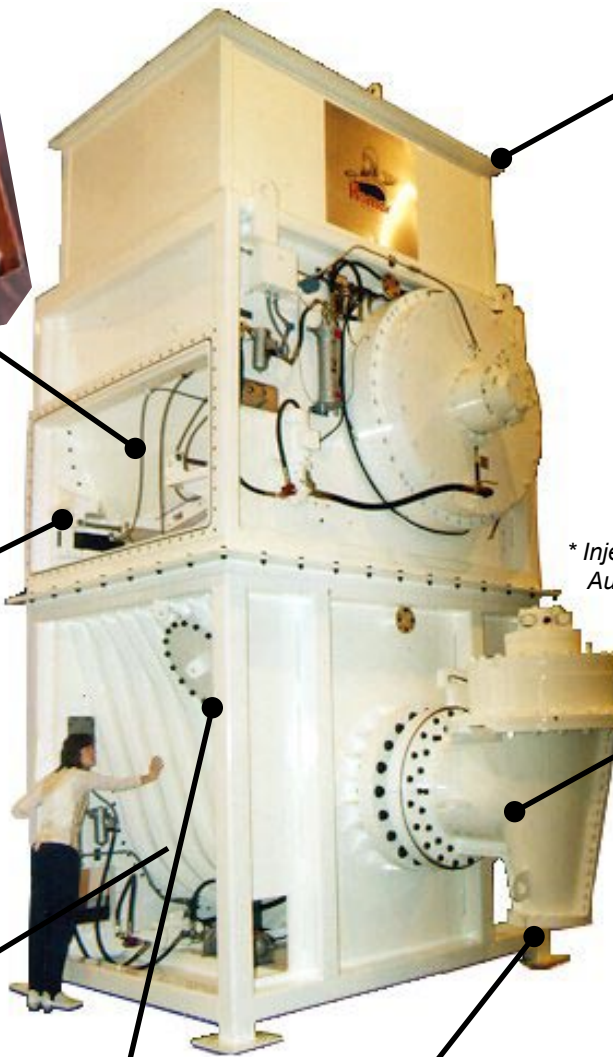


* Injection
Auger

Primary Feed &
Air Plug



* Base Reserve
Auger



Access Port



Optional: In feed Drum
Conveyor System For Air Lock



* Full Injection Feed Auger With
Isolation Gate & Temperature
Controlled Feed Tube



Optional: Water Cooled Ash
Take-away Conveyor With
Explosion Doors



Dual Hydraulic Power Units

* US & Foreign Patents

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