KOMAR Process Screw Feeders utilize an auger screw to process a variety of materials in a controlled measure to all manner of systems. Applications such as manufacturing pre-processing, rotary kilns, cement kilns, plasma arc furnaces, gasifiers, fuel cartridge systems, and stabilization systems are all easily handled by the Komar volumetric feeders and extruders. The feeders come in many sizes and capacities, and may be combined with sizing shredders, air locks, atmospheric controlled processing chambers, guillotine isolation gates and temperature controlled extrusion tubes. Komar feeders require a smaller footprint than other processes for tough materials, as well as, provide a safe environmental seal system, reducing personnel exposure from processing material. A wide spectrum of hazardous waste with varying physical and chemical characteristics, including solids, liquids and sludge with high and low BTU, can be shredded, blended, and fed in a controlled manner.
Komar's volumetric screw feeders are designed for heavy duty applications and are implemented globally for their unique ability to accurately and reliably feed an extremely broad variety of solid and semi-solid materials at a controlled rate. Komar's innovative and patented technology provides superior designs at a high degree of reliability and versatile metering performance. The quality of construction and durability of Komar volumetric feeders is based on over 30 years of field experience in some of the toughest applications in the world, while providing some of the lowest maintenance requirements in the industry.

Types of Volumetric Feeders
Komar's volumetric feeders range from:
- **Single Auger or Screw Feeders** are utilized for straight on line feeding systems.
- **Offset Feeders** have a 90° injection head, permitting a shift of the feed direction. Additional reduction of the feed materials provides a more consistent feed and allows for a secondary air plug before feeding.
- **Shred Feeders** are ideally suited when a coherent piece size is desired for the finish process.

Capacity
Weight and volume that can be handled ranges from 100 lbs. to 20 tons per hour depending on the density, moisture content, consistency or mixed material types.

Primary Feeder Screws & Augers
Komar utilizes a number of designs that encompass both screw and auger types, together with a number of alloys. Numerous types of screw designs allow for the best control of product flow. The basic types are:
- **Worm Screws** with their consistent pitched flights, are ideally suited for consistent sized materials.
- **Tapered Compression Augers** are designed to tear, break down and shredded materials as they are processed towards the feed tube. The compression auger assures a plug providing a good air plug to the receiving process.

Benefits:
- Compact Designs
- Batch or Conveyor In-feed
- Continuous Outputs
- Variable Feed Rate (less than 1 RPM possible)
- Increased Safety for Employees
- Hydraulic or Electric Drives
- Designs Tolerant of Tramp Materials
- Feeder Compression Plugs for Feed Control

With a large variety of feeders and optional equipment, Komar's engineering group can offer custom solutions to solve new, unique or existing volumetric feed projects. They have successfully fed products that have defeated other existing systems. Komar has designed and manufactured a number of different auger and screw type volumetric feeder models in order to successfully handle the diversity and incredible number of solid, semisolid, sludge and wet materials. Each of our individual volumetric feeder models are specifically programmed to handle a range of product characteristics.

Optional Equipment:
- System Integration
- Feeder Tube Cooling
- Alloy Feed Tubes
- Guillotine Isolation Feeder Gate
- Rotary Isolation Feeder Door
- Isolation Hopper Doors
- Conveyor Feed Air Locks
- Bulk Feed Air Locks
- Dumpers
- Drum Lifts
- Skip Hoists
- Conveyor Integration
- Oxygen Monitoring
- Nitrogen Purging Systems
- Water Wetting Systems
- Integrated Control Systems
- Camera Monitoring Systems
- Total Enclosures for Containment of Fugitive Emissions
- Service Platforms
**Single Screw Variable Speed Feeders**

*High capacity volumetric variable hydrostatic driven feeders for high volume feed*

**Komar Assistance**
From beginning to end, let Komar’s sales & engineering staff help with your feeder selection. Our engineering staff is ready to assist with system integration and our experienced service group can help with installation, startup and a preventative maintenance program.

*Low cost Electro-mechanical feeders to fit the tight budget*

*Plasma Arc variable Electro-mechanical*

*Hydrostatic Heavy Duty Feeder*

*Cement Kiln variable speed feeder with isolation gates & cooling feed tube*

*Heavy duty sludge feeder*
PROCES SCREW FEEDERS
Engineered Solutions For Volumetric Feeders For Solids, Semisolids, Wet Waste & Sludge

the global heavy duty feeder solutions

Offset Volumetric Shredder/ Feeders

Drum processing system utilizing the Offset Volumetric Shredder with drum lift & in-feed isolation gate

Fiber glass bales are broken down in the main chamber, tearing & shredding the fiber as it is fed to the injection auger of the Offset Feeder

Volumetric Shredder/ Feeders

Hydraulic variable feeder with integrated sizing shredder & screen

Quad shredder, sizing screen, cart dumper and low cost Electro-mechanical feeder