



# THE TIGER ELECTRO-SHEAR

SIMPLE COST EFFECTIVE VOLUME REDUCTION

*innovative waste processing systems*

## MATERIALS PROCESSED:

- Product Destruction
- Cloth
- Pallets
- Drums
- Bulk Solids
- Wooden Crates
- Paint Sludge
- Wood Waste
- PVC Pipe & Tubes
- Asphalt
- Corrugated Cardboard
- General Plant Waste
- Yard Waste
- Fiberglass and Plastic
- Furniture Products
- Oil Filters
- Tires
- E-Waste

## UTILIZATION FOR:

- Recycling Systems
- Product Recovery
- Product Destruction
- Plastics Reprocessing
- Security Shredding
- Metals Reduction
- Pulp and Paper
- Waste Reduction Systems
- Tire Reduction Systems
- Medical Wastes
- Municipal Solid Waste
- Industrial Applications
- Hospitals
- Pharmaceuticals

## FEATURES:

- Lowest Investment Cost
- Electro-Mechanical Operation
- Counter-Rotating, Anti-Jam Drive
- High Strength, Steel Alloy Shafts
- Proprietary Bearing Protection
- Precision Line-Bored Shaft / Gear Alignment
- Torsion Construction, Heavy Plate Frame
- Replaceable, Double-Keyed Cutters and Spacers
- Heat Treated Keystock
- Extreme Shock Protection "ESP"
- Machine Mounted Or Remotely Located Control Panels
- Programmable Logic Controller (PLC)
- Load Sensing, Auto Reversing Shafts
- IEC Electrical Controls
- \* Patented Pro Cutter Locking System

## OPTIONAL FEATURES:

- Quick-Flex™ Logic Drive (mimics hydraulic drives)
- Cutter Thickness & Hook Arrangement
- Custom-Designed Support Stand & Hopper
- Service Platforms w/Ladder
- Remote Control Console with Stand
- Power Feed Rollers
- Electric Infeed Hopper Ram w/ Komar Quick-Flex™ Logic
- Material Infeed/Outfeed Equipment
- Standard or Custom-Built Hopper
- Soft Start
- Stainless Steel Construction

*Hydraulic Infeed Hopper Ram*



Model ES3030-50 And Model ES1220-20



Model ES5230-60 W/Ram Infeed Assist

The KOMAR Tiger Electro-Shear has the appetite to handle your waste for primary shredding utilizing the shredding action of high torque, low shaft speed counter rotating cutter disks in a variety of tooth patterns and sizes. It operates at slow speed with minimum noise, dust and energy requirements with electrical automatic anti-jamming action.

## KOMAR INDUSTRIES, INC.

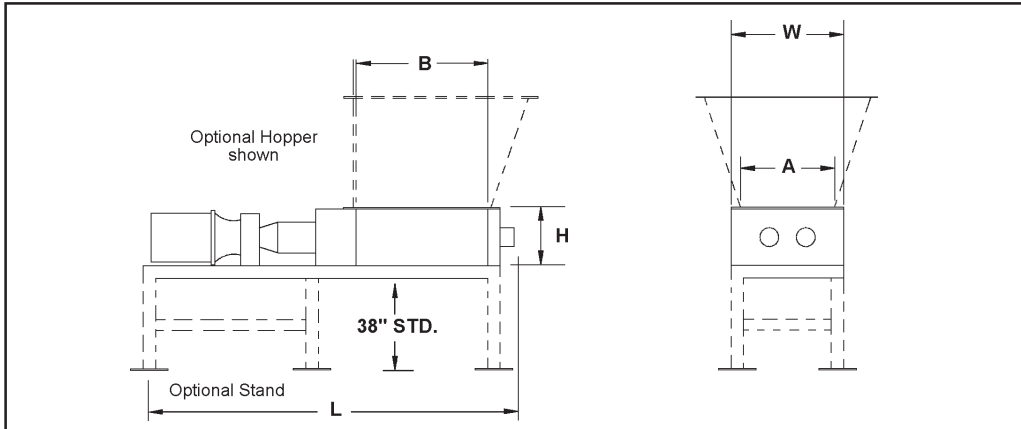
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**U. S. and Foreign Patents Issued and Pending**

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TECHNICAL DATA						
MODEL	ES1220	ES3020	ES4030	ES5230	ES6536	ESD7552
Electric Drive (hp) Motors	1 - 15 / 20	1 - 25 / 30	1 - 50 / 60	1 - 75 / 100	1 - 75 / 100	2 - 150 / 200
Power Requirement	240/480 V/ 60 Hz	480 V/ 60 Hz	480 V/ 60 Hz	480 V/ 60 Hz	480 V/ 60 Hz	480 V 60 Hz
Infeed Charge Opening (BA)	12" x 20"	30" x 20"	40" x 30"	52" x 30"	65" x 36"	75" x 52"
Shaft Diameter	3-1/2"	4"	5"	6-1/2"	8"	8"
Cutter Thickness Std.	1 - 1/4"	1-1/4"	2"	2"	2"	2"
Dimen. of Shredder (LWH)	88" x 26" x 14"	129" x 26" x 12"	122" x 39" x 18"	142" x 39" x 20"	166" x 50" x 22"	207" x 64" x 28"
Wt. of Shredder approx.(lbs.)*	3500	5100	6,500	11,000	14,000	29,000
MODEL	ES2220	ES3030	ES5230	ES5236	ES6040	ESD10052
Electric Drive (hp) Motors	1 - 15 / 20	1 - 40 / 50	1 - 50 / 60	1 - 75 / 1000	1 - 125 / 150	2 - 200
Power Requirement	480 V/ 60 Hz	480 V/ 60 Hz	480 V/ 60 Hz	480 V/ 60 Hz	480 V/ 60 Hz	480 V 60 Hz
Infeed Charge Opening (BA)	22" x 20"	30" x 30"	52" x 30"	52" x 36"	60" x 40"	100" x 52"
Shaft Diameter	4"	5-1/2"	5-1/2"	6"	8"	8"
Cutter Thickness Std.	1-1/4"	2"	2"	2"	2"	2"
Dimen. of Shredder (LWH)	108" x 26" x 12"	129" x 39" x 18"	142" x 52" x 20"	142" x 45" x 22"	158" x 56" x 22"	240" x 64" x 28"
Wt. of Shredder approx.(lbs.)*	4500	6000	10,000	12,500	22,000	34,000

\*Specifications are subject to change.

### " Proprietary Bearing Protection System "

**Komar** utilizes a Proprietary Bearing Protection System that insulates the bearing and seal from the cutting chamber and away from the bearings which is the key to longer uptime and lower operating cost. The system includes heavy splash plates, end cutter configurations deflection, shield with grease purge air space and specialized seal guards.

### \* " Pro Cutter Locking System "

**Patent Numbers:**  
\* 6250577, 6092753, 6393699 6000852

**The Komar** \* Patented "Pro Cutter Locking System" addresses a major problem found in most Shear Shredders, that of cutter stacks becoming loose. The conventional nut and bolt system cannot apply enough force to hold the stacks tight resulting in poor performance and damage to the shaft. The P.C.L.S. solves the problem with a compact integrated bearing and locking system, which has been demonstrated to provide 900% more force than the conventional nut & bolt method, thus providing for less need for maintenance and more uptime.

Komar Industries, Inc. custom engineers, manufactures, installs, and services complete waste processing systems for virtually all types of solid, semi-solid, hazardous, and non-hazardous materials and waste streams.

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Video Demonstrations Available