

SUTTON-STEELE RADIAL KNIFE GRANULATORS

Designed for Chopping Scrap Non-Ferrous Wire and Cable



TRIPLE/S DYNAMICS, INC.
ADVANCING.

www.sssdynamics.com

Built to withstand severe, continuous service, Sutton-Steele Granulators offer a number of distinctive design features.

Rotors are machined from a one-piece, heat-treated alloy steel billet with knife seats and journals ground to finish dimensions with a 1/1000 inch tolerance. V-belt drives permit optimum rotor speed selection and eliminate the risk of damage due to misalignment or sudden stoppage. Rotors are mounted in spherical roller bearings press-fitted into precision-ground cast housings which bolt to the line-bored cutting chamber housing. Bearing housings are protected against the entrance of metallic dust by an annular space, located between the bearing housing and anti-wear plate, which permits dust to pass through to the discharge hopper. Recirculating lubrication systems with oil coolers, standard on all models, ensure maximum bearing life.

Knives are manufactured to the highest quality standards from heat-treated propriety alloy steel. Rotor knife blades are held within tolerance limits of .002" (.015 mm) total radial runout per set. Stationary knives, with gap-adjusting screws, are accessible from outside the cutting chamber and are securely held in the set position under hardened alloy steel clamp bars.

Granulator discharge grates, subject to heavy impact and abrasion, are specially made from wear-resistant, heat-treated alloy plate with drilled holes. All grates are replaceable and interchangeable with hole sizes ranging from 3 inches to 1/8 inch diameter.

Hydraulically-opened side doors, on all 48 Models, assure quick and easy access to the cutting chamber for routine knife inspection and maintenance. Hydraulic cylinders, on the 24 Husky Models, swing open the upper part of the cutting chamber for complete access to rotor and bed knives. On the 24 Models, a manually operated, built-in hydraulic jack raises the upper part of the cutting chamber, swiveling it to swing clear for fast access.

Provisions for water cooling are made in all models. In the Model 48 Granulators, the heat is dissipated by cooling water recirculating through the hollow doors of the cutting chamber and internal passages in the side walls under the knife seats. In the Model 24 Granulators, the heat is dissipated by cooling water recirculating through internal passages in the two side walls under the knife seats.

Feed and discharge hoppers can be custom designed to simplify incorporation of granulators into existing systems. Optional cross-flow aspirators, integral to the granulator discharge hopper, improve cleanliness in systems chopping high-fiber material.

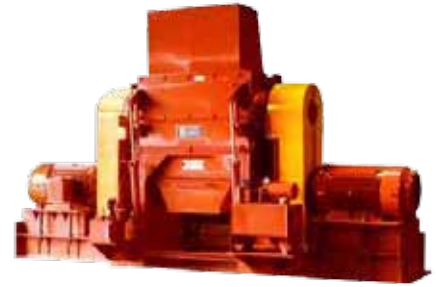
	Super 48	Model 48 Primary	Model 48 Secondary	Model 24 Husky Primary	Model 24 Husky Secondary	Model 24 Primary	Model 24 Secondary
Cutting Circle dia.	14 3/4 inches (375 mm)	14 3/4 inches (375 mm)	14 3/4 inches (375 mm)	14 3/4 inches (375 mm)	14 3/4 inches (375 mm)	10 inches (254 mm)	10 inches (254 mm)
Rotor Length	48 inches (1219 mm)	48 inches (1219 mm)	48 inches (1219 mm)	24 inches (610 mm)	24 inches (610 mm)	24 inches (610 mm)	24 inches (610 mm)
No. of Rotating Knives	3	3	5	3	5	3	5
No. of Stationary Knives	4	4	4	2	2	2	2
Weight, less motors	28,000 lb. (12,727 kg.)	20,000 lb. (9,091 kg.)	20,000 lb. (9,091 kg.)	10,000 lb. (4,545 kg.)	10,000 lb. (4,545 kg.)	7,500 lb. (3,409 kg.)	7,500 lb. (3,409 kg.)





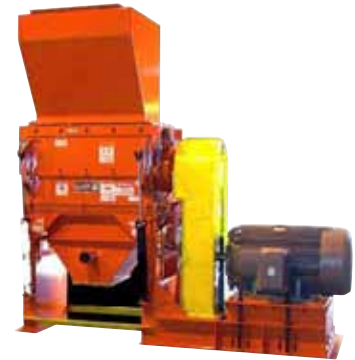
SUPER 48 PRIMARY GRANULATOR

The Super 48 is the largest Sutton-Steele granulator. Driven by two 250 HP motors, it's used as the primary granulator in the largest scrap wire systems. Like the standard Model 48, it has hydraulically opened side doors for quick knife inspection and maintenance. The unit pictured chops 10,000 pounds per hour of communication cable through a 3/4" grate.



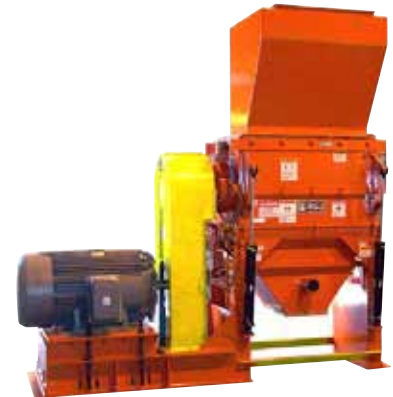
MODEL 48 GRANULATOR

The Model 48 Granulator can be used with a three-lobed rotor as a first-stage granulator receiving scrap pre-sheared from loose bales, bundles or coils. Frequently, in large systems, it is equipped with an optional five-baled rotor and cooling water jacket for use as a high-capacity second-stage granulator. The unit pictured is equipped with an oversize feed hopper.



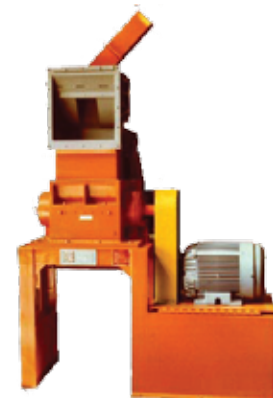
MODEL 24 HUSKY GRANULATOR

The Model 24 Husky Granulator, with a five-knife rotor and water cooled cutting chamber, is used as a second-stage or third-stage reduction unit. Equipped with a three-knife rotor, the Model 24 Husky can also be used as a primary granulator in small systems. Hydraulic cylinders open and close the cutting chamber for fast access.



MODEL 24 GRANULATOR

The Model 24 Granulator, like the Model 24 Husky Granulator, is used as a second-stage or third-stage reduction unit, equipped with a five-knife rotor. With a three-knife rotor, the Model 24 can also be used as a primary granulator in small systems. For quick access to rotor and bed knives, the upper part of the cutting chamber swivels on a manually-operated, built-in hydraulic jack which raises it to swing clear.



ADVANTAGES OF SUTTON-STEEL GRANULATORS OVER SIMILAR-SIZE COMPETITIVE MODELS

- Have longer rotors with larger cutting circles, giving the Model 24 about 20% more grate area, the Model 24 Husky about 80% more grate area and the Model 48 about 17% more grate area than comparable granulators made in the United States.
- Assure clean cuts and free release without 'wiping' because the bed knife cutting edges are placed in a common horizontal plane through the centerline of the rotor.
- Are more rugged and massive. Their heavy-duty construction is reflected in their greater weight and higher capacity in continuous-duty operations.
- Have knives designed with a minimum rake angle on the cutting edge to resist chipping and nicking, and retain a sharp edge longer under severe service.
- Use fewer knives (when compared with some competitive designs) to span the full cutting length, thereby reducing the time required for knife changing or re-gapping.
- Long, heavy, large-diameter rotors have large cutting circles, resulting in more grate area. Because the bed knife cutting edges are placed in a common horizontal plane through the centerline of the axis, clean cuts and free release without wiping are assured and knife clearance setting is easier.
- Knives are precision manufactured from heat-treated proprietary alloy steel to assure long life and best performance.
- Hydraulically-opened side doors on all 48 Model Granulators assure fast, easy access to the interior of the unit for inspection or maintenance.
- Self-contained lubrication systems, standard on all models ensure maximum bearing life. Systems are comprised of reservoir, water/oil cooler, filter, pressure and scavenge pumps for positive, continuous oil flow.

Complete mechanical wire recovery systems, including system design and process engineering, are available from Triple/S Dynamics. Components to improve the performance of existing installations include: fluidized-bed separators, stones, high-speed horizontal screens, vibrating conveyors and, for uniform high-capacity feed to the primary granulator, RotaGator pre-choppers for preshearing cable.



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