

**P R E M I U M**  
**SHURFEED™**  
**GRANULATORS**

## POLYMER SYSTEMS

**Highly efficient granulators  
conserve energy, conquer  
noise and eliminate feedback.**

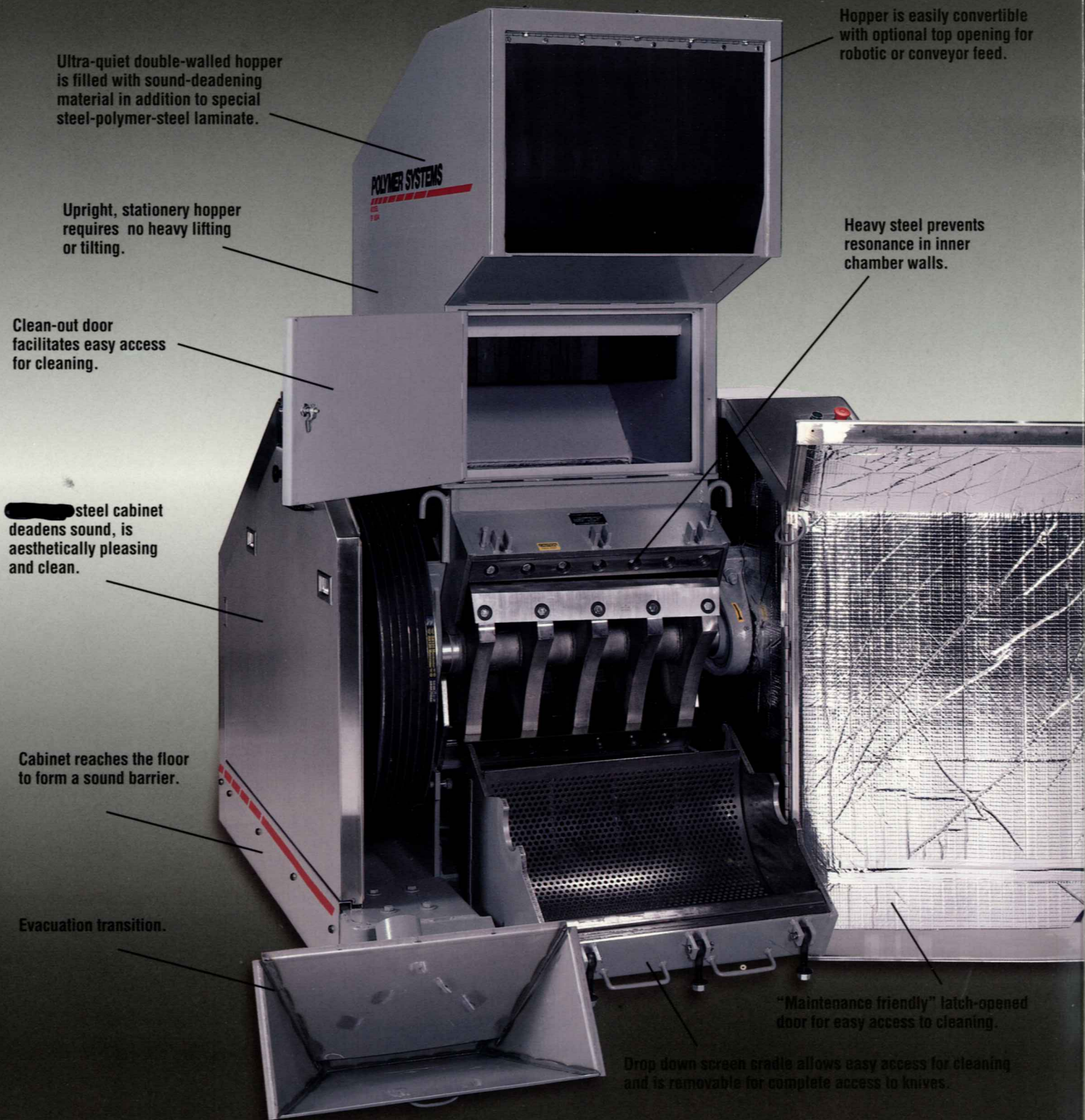
## POLYMER SYSTEMS

Model SF1824



# Improved Tangential Feed and New Sound Proofing Technology Reduce Noise and Eliminate Feedback.

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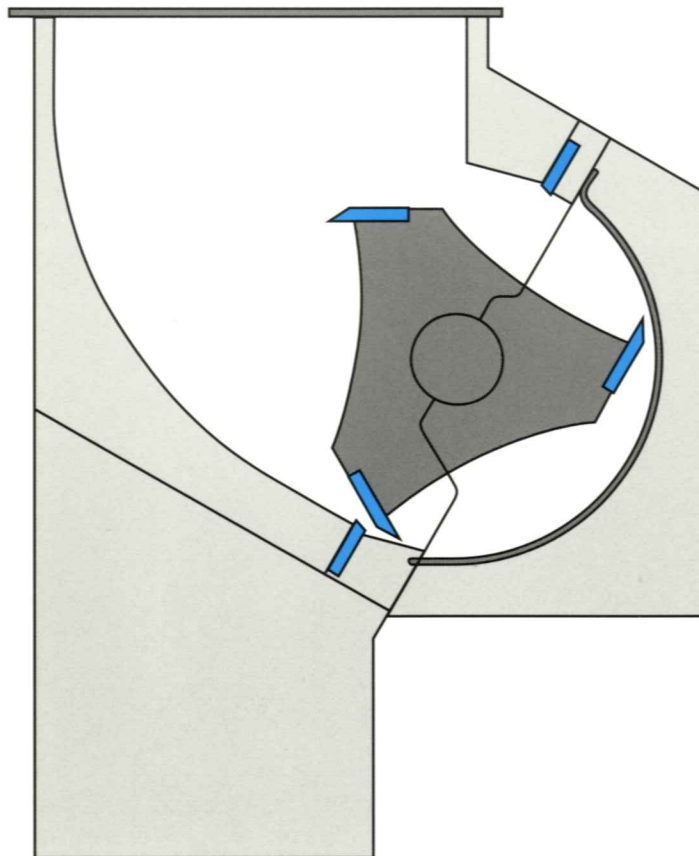




## ***New Tangential Feed Cutting Chamber Dramatically Reduces Flyback!***

Polymer Systems has taken its proven Shurfeed™ chamber design a giant step forward with refinements that dramatically improve operating efficiency. A specially designed back wall smooths material transition to the cutting circle to practically eliminate flyback, while reducing overall shock to the system, noise and energy usage as well.

Another improvement: New Premium Shurfeed rotors run at slower speeds to decrease the velocity of materials in the chamber, reducing the ricochet effect. In total, operating efficiencies achieved with this new chamber design deliver substantial improvement in noise reduction, flyback and energy efficiency.



## ***The Industry's Most Energy Efficient Granulators.***

Polymer Systems has system-matched chamber, rotor and drive components in this new line of granulators to deliver efficient, trouble-free performance with the lowest possible power requirements.

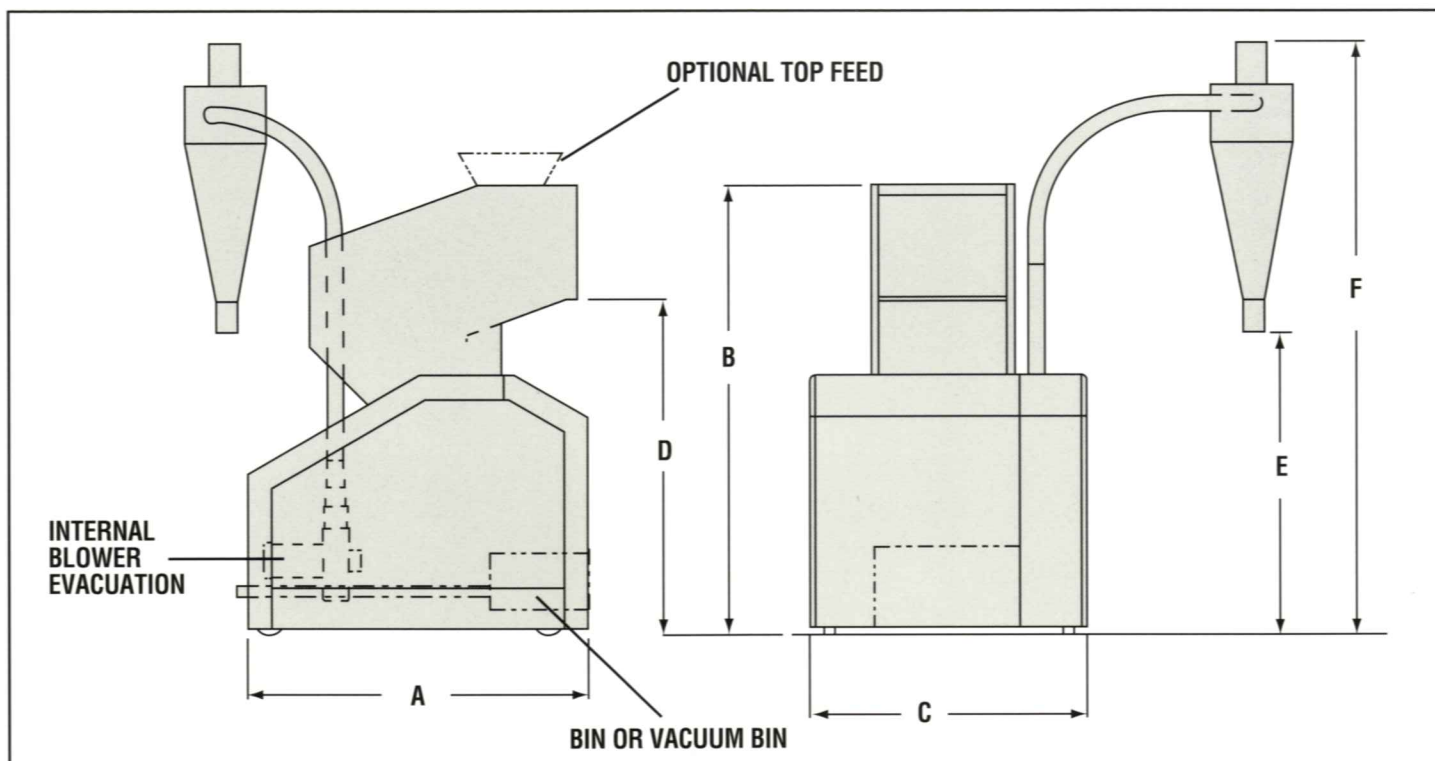
The original Double Angle Cut™ configuration, which includes three steep-angle rotor knives and two counter-angled bed knives, provides a high shear slicing action that produces a clean, uniform granulate at high throughput rates with low energy consumption.

The new rotor design also puts more weight at the outer diameter to maximize use of kinetic energy and inertia for easier cutting of materials without jamming. Polymer Systems uses larger sheaves to further increase inertial forces.



### ***Special Options***

When specified, a blower evacuation system can be fitted inside the machine's sound-proof enclosure for quieter operation and to minimize floor space requirements. The cyclone is mounted on the back of the granulator, so it doesn't require a separate stand and is portable with the granulator.



#### DIMENSIONS

MODEL		A	B	C	D	E	F
SF 1416	in.	52.5	72.5	47.5	53.5	55	86
	(mm)	1334	1842	1207	1359	1397	2184
SF 1420	in.	52.5	72.5	47.5	53.5	55	86
	(mm)	1334	1842	1207	1359	1397	2184
SF 1820	in.	63	84	51.5	62.5	55	110
	(mm)	1600	2134	1308	1588	1397	2794
SF 1824	in.	63	84	51.5	62.5	55	110
	(mm)	1600	2134	1308	1588	1397	2794

#### SPECIFICATIONS

Model		SF 1416	SF 1420	SF 1820	SF 1824
Throat Size at Chamber*	in.	14 x 16	14 x 20	18 x 20	18 x 24
	(mm)	355 x 406	355 x 508	457 x 508	457 x 610
Screen area	in. <sup>2</sup>	271	337	410	493
	(cm <sup>2</sup> )	1748	2174	2645	3180
Motor	HP	10, 15, 25	15 - 30	20 - 40	25-50
	(kw)	7.5, 11, 19	11 - 22	15 - 30	19 - 38
Cutting Circle (dia.)	in.	12.5	12.5	16	16
	(mm)	318	318	406	406
Rotor Knives		3	3	3	3
Bed Knives		2	2	2	2
Throughput**	lbs./hr.	950	1200	1800	2100
	(kg/hr.)	432	545	818	955
Weight	lbs.	2000	2200	3200	3500
	(kg)	909	1000	1455	1590
Blower	HP	1.5	1.5	3-5	3-5
Cyclone	Model	50	50	75b	75b

\* Measured at entrance to chamber.

\*\* Average figures; throughput varies with different materials, part shapes and screen sizes.

Note: All specifications are subject to change without notice. All production rates & projections are good faith estimates.



*Polymer Systems encourages and supports post-consumer recycling efforts.*

*We offer a complete line of granulators, including press-side, heavy duty central machines, specialized designs for automation, hot material and film recovery. Low-speed, high-torque shredders and two-stage shredder/granulator combinations provide efficient reprocessing of heavy-wall parts, purging and large, bulky parts such as blown bottles and molded housings.*

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#### HOSOKAWA POLYMER SYSTEMS

Hosokawa Polymer Systems is a member of the Hosokawa Micron Group, responding to global needs through an emphasis on materials science and engineering. The Group is an international provider of equipment and systems for powder and particle processing, product recovery, plastic processing and confectionery products. The Group maintains facilities for research, engineering, manufacturing, and service in each of the world's major industrial markets.

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