

# AGF SERIES—SPECIFY FOR FILM AND BOTTLE GRANULATOR

AGX/AGS/AGF/AGH



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## KEY FEATURES >

- Anti-wear machine housing
- Ladder blade rotor configuration for films and hollow plastics
- Suitable for wet and dry granulation
- 20-40% additional throughput
- Heavy duty bearings
- Oversized external bearing housings
- Knives are externally adjustable
- Robust welded steel construction
- Wide choice of rotor variations
- Electrical hydraulic control to open housing
- Electrical hydraulic control to open screen cradle
- Replaceable wear plates
- Amp meter control

## OPTIONS >

- Extra flywheel
- Double infeed hopper
- Roller feeder
- Mounted screw feeders in hopper
- Winding protection
- Metal detector
- Metal separator
- Bespoke colour scheme
- Increased motor drive

## GENERAL DESCRIPTION >

The AGF Film & Bottle Granulator has been specially design for the processing of films, bottles, and other hollow thin walled plastics. It has a centrally hinged two-piece cutting chamber with a robust welded steel construction, with the upper and lower sections of the housing meeting horizontally. Reversible stator knives with double cutting edges are fitted as single elements to the lower section of the housing, allowing multiple re-sharpening and adjustment of the stator knives. There is a hinged screen cradle and hinged door for easy screen access.

The rotor is a heavy duty paddle type design with knife cover plates to protect the blades when processing abrasive applications. The knife mounting bolts are screwed into the mounting plates as opposed to the rotor. All

knives are manufactured from chrome nickel tool steel as standard, but when processing applications that are particularly abrasive the AGF granulators can be fitted with a specially designed wear resistant rotor utilizing wear resistant steel parts and hardox facing.

The v-cut cutting geometry offers distinct advantages over other rotor designs, including higher throughput with reduced power consumption, better quality cut, and lower noise levels. The AGF rotor configuration provides between 20-40% additional throughput in comparison to standard rotor configurations.

Specially designed knife setting jig means that the knives can be adjusted from outside the machine, significantly reducing the downtime required to change/set knives.

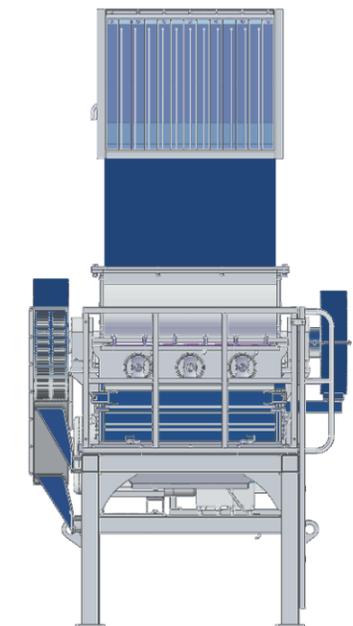
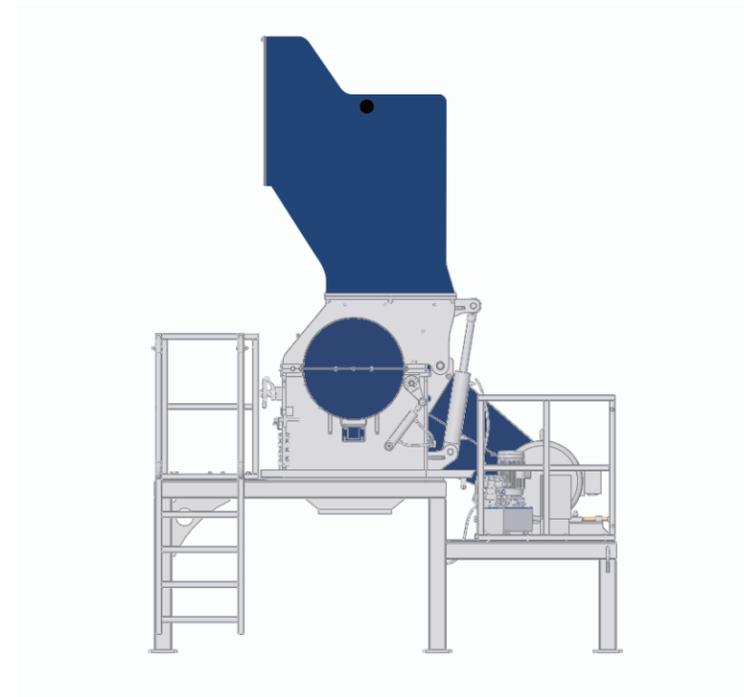
The base frame has a solid welded construction with anti-vibration rubber feet to reduce vibration and noise. The drive motor is mounted on tension rails to allow easy adjustment of the V-belt tension. Integrated suction trough for material discharge.

Specially designed hopper with 3 sets of curtains to prevent material flybacks.

Integrated rundown safety device prevents access to the rotor until it has come to a complete stop. A safety switch prevents machine startup when the front panel is open and the machine features emergency stop buttons on the machine body and control panel.

## SPECIFICATION >

ITEM	UNIT	AGF500/700	AGF700/1000	AGF700/1200	AGF800/1200	AGF800/1600
Rotor Diameter	mm	Φ500	Φ700	Φ700	Φ800	Φ800
Rotor Width	mm	700	1000	1160	1160	1560
Rotor Knives	pcs	5×2	5×2/7×2	5×2/7×2	5×2/7×2	5×4/7×4
Stator Knives	row	2	2	2	2	2
Cutting Chamber Dimensions	mm	500×700	700×1000	700×1176	800×1200	800×1600
Motor Power	kw	37~55	75	90	132	160
Capacity	Ton/hr	0.3~0.5	0.5~1	1.2~1.5	1.5~2.0	2.0~3.0



## APPLICATIONS >

PLASTICS FILMS / PLASTIC BOTTLES / THIN WALLED HOLLOW PLASTICS / THIN WALLED PLASTIC COMPONENTS

## JIANGSU KITECH MACHINERY CO.,LTD

Tel : +86-512-5862 0105 Fax : +86-512-5896 2531  
 Email : info@kitechpm.com Web : www.kitechpm.com  
 Add : No.7 Jiulong industry park, Jinfeng Town, Zhangjiagang City, Jiangsu, China

# AGS GENERAL PURPOSE SINGLE SHAFT SHREDDER

AGX/AGS/AGF/AGH



## KEY FEATURES >

- Large diameter flat rotor
- Machined pocket knife holders
- Optional hard facing
- Concave ground square knives
- Robust ram construction
- Heavy duty guide bearings
- Universal couplings
- Low speed, high torque geared drive
- Reduced footprint - (compared to horizontal pusher designs)
- Powerful hydraulic swing type ram
- Bolt in drive shafts
- Oil cooling on ram and gearbox
- Two speed hydraulic system
- Multiple rotor designs
- Ram comb plate
- Amp meter control

## OPTIONS >

- Hydraulic screen cradle
- Gearbox with shrink disc
- Rotor cooling
- Pipe spacer
- Touch screen PLC
- Hopper mounted viewing mirror
- Increased motor drive
- Hydraulic drive

## GENERAL DESCRIPTION >

The AGS General Purpose Single Shaft Shredder has a 457mm diameter profiled rotor made of solid steel, operating at a speed of 74rpm. The concave ground, aggressive 4-way rotating knives are mounted in the grooves of the profiled rotor with special knife holders. This enables a reduction of the cutting gap between the counter knives and the rotor which guarantees a high flow rate, low power consumption and maximum output of shredded material.

The hydraulically operated ram feeds the material automatically in the rotor's cutting chamber by load-related controls. The hydraulic system is equipped with high-pressure valves and volumetric flow controls which can be set according to the requirements of the input material.

Extremely robust pedestal bearing housings are mounted outside the machine and separate to the cutting chamber to prevent dust and dirt penetrating into the oversized

bearings. This ensures a long service life and minimum service and maintenance.

Power is transmitted from the motor by a drive belt via an oversized gearbox which is located on the shaft end on one end of the rotor.

A safety switch prevents machine startup when the front panel is open and the machine features emergency stop buttons on the machine body and control panel.

## APPLICATIONS >

The AGS Shredders have been designed with a wide range of applications and industries in mind such as:

**PLASTICS / WOOD / BIOMASS / PAPER / ALTERNATIVE FUELS (RDF/SRF) / DOMESTIC & COMMERCIAL WASTE**

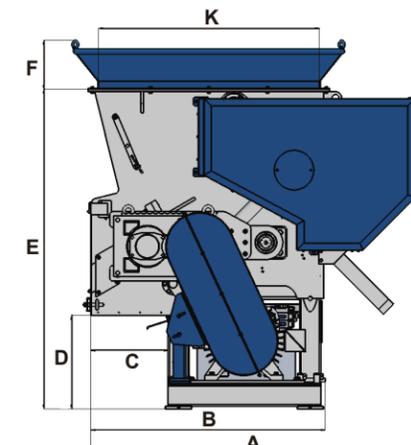
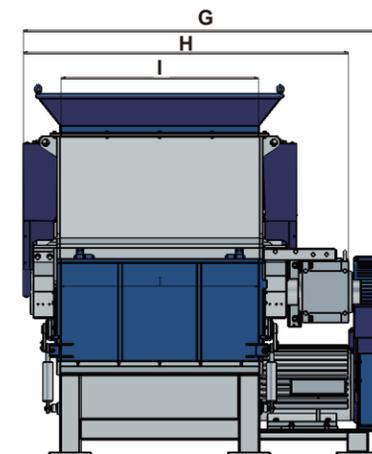
# AGS GENERAL PURPOSE SINGLE SHAFT SHREDDER

AGX/AGS/AGF/AGH



## SPECIFICATION >

ITEM	UNIT	AGS850	AGS1200	AGS1500	AGS1600	AGS2000	
Cutting Chamber	mm	840×1570	1120×1570	1400×1570	1600×1570	1960×1570	
Rotor Diameter	mm	457	457	457	590	457	
Rotor Speed	rpm	74	74	74	74	74	
Motor Power	kw	37/45/55	55	75	110	2×55/2×75	
Rotor Knives	pcs	60	81	102	76	144	
Stator Knives	pcs	2×3	2×4	2×5	2×4	2×7	
Hydraulic Ram Power	kw	3.6	5.5	5.5	5.6	5.6	
Screen Size	mm	40~100	40~100	40~100	40-100	40~100	
Shredding Chamber Size	mm	800×730	800×1000	800×1290	800×1460	800×1860	
Dimensions	A	mm	2500	2500	2500	2880	2880
	B	mm	1750	1750	1750	2180	2180
	C	mm	750	750	750	920	920
	D	mm	660	660	660	1000	1000
	E	mm	2250	2250	2250	2810	2810
	F	mm	340	340	340	350	350
	G	mm	2020	2290	2600	2830	2830



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Tel : +86-512-5862 0105 Fax : +86-512-5896 2531  
 Email : info@kitechpm.com Web : www.kitechpm.com  
 Add : No.7 Jiulong industry park, Jinfeng Town, Zhangjiagang City, Jiangsu, China