

\*The size and shapes are customizable on the listed auxiliary chute, suction tank, paper-bag frame, and hopper. \*Other optional parts upon request.



# Not a Crusher, But a Gran-Cutter

# **Gran-Cutter & Mixer** Series

SPCI/SPCI-S/GMI-t/GMI-St/MBIt



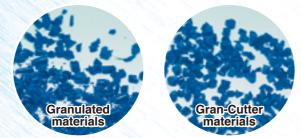


# Harmo's revolutionary Gran-Cutter reduces your plastic material cost.



"Not a crusher, but a Gran-Cutter" Harmo's Gran-Cutter is a revolutionary device to regrind runners and sprues into granules roughly as small as virgin pellets by unique swing press cutting system patented in nine countries. This can recycle materials which have been conventionally discarded.

### **SPCII** Gran-Cutter regrind sprues into cylindrical granules - not crushed pieces and fines.



### To customers who have never used a Gran-Cutter

### **Over conventional crushers**

### Evenly-sized granules

Employing the patented "Swing-Press Cutting System" can regrind runners and sprues into evenly-sized granules.

### Very little dust

The cutters do not re-cut sprues and runners in the same place, thus minimizing dust, static electricity, and heat generation.

### •Verv few miscuts

The spacing between the blades approximately duplicates the size of virgin pellets, so sprues and runners get granulated to roughly the same dimension, resulting in very few longs without a screen.

### Very quiet

Cutting is held to a minimum, therefore the device is very quiet.

### Easy to clean

Because there is minimum static electricity produced, any dust does not adhere to interior surfaces. Furthermore, its large door which opens downward significantly shortens cleaning time. (5 to 7 minutes)

No static electric generation No heat generation No dirt at all

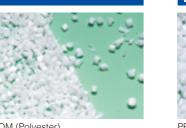
Soft materials are acceptable Easy set-up Easy to operate

# Not a Crusher, But a Gran-Cutter No more waste. Sprues are recycled to uniformly size.





PA (Nylon 20% glass filler)





ABS (Acrylonitrile butadiene styrene)





TPE (Thermoplastic elastomer)

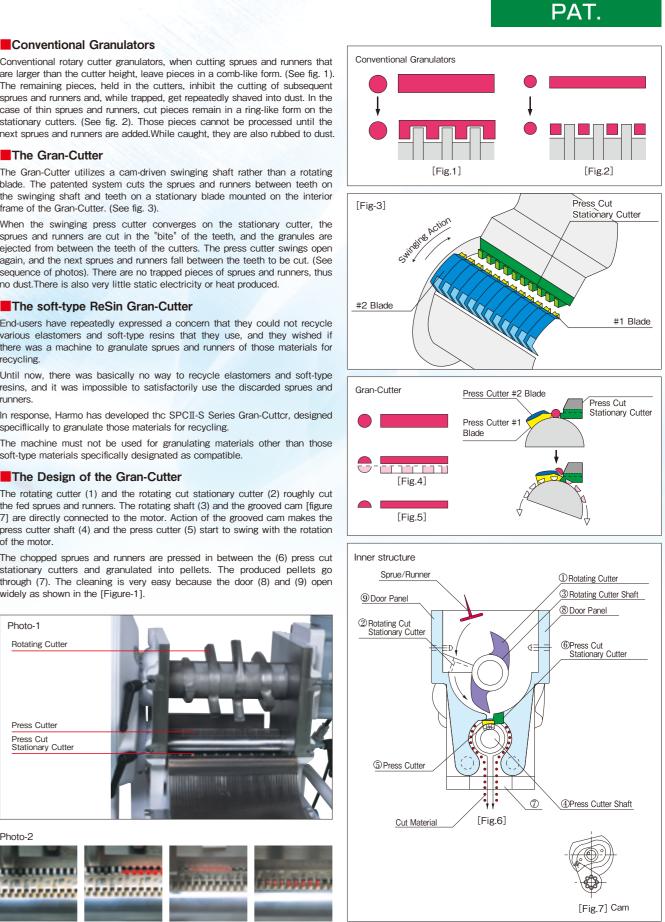


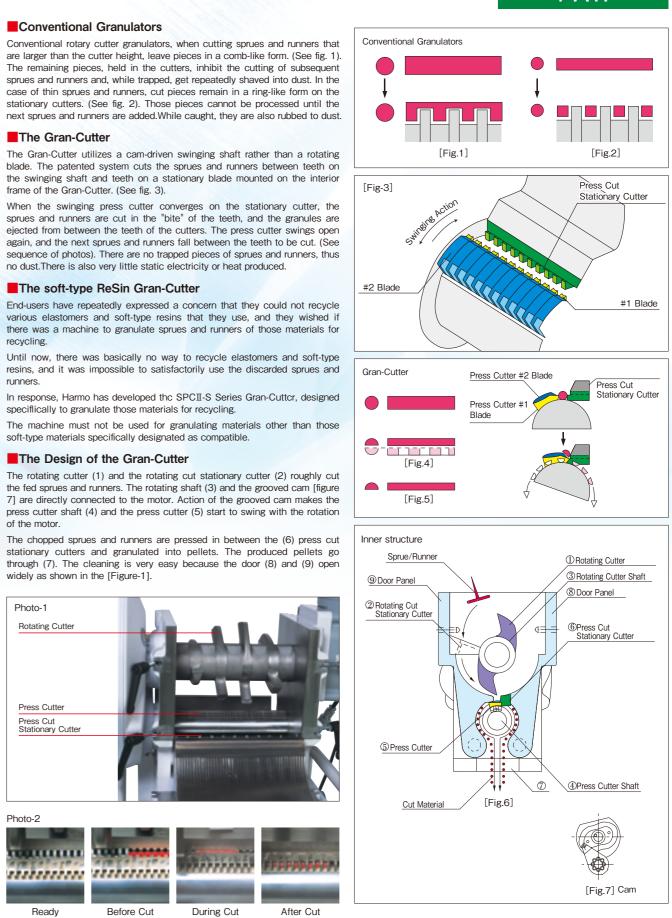


PUR (Polyurethane)

# **Entirely New Swing Press Cut System!** With the SPCII-S series Gran-Cutter, it is now possible to regrind soft-type resin sprues and runners that until now could not be recycled.

runners.







# More advanced Gran-Cutter SPCII series



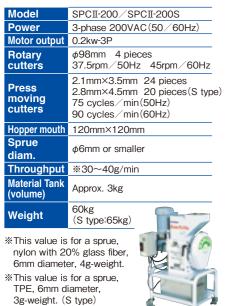


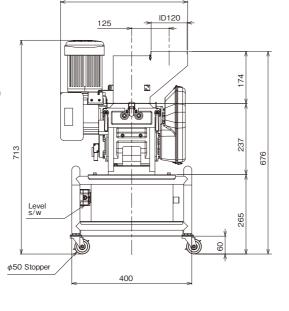
Newly designed swing cutters minimize LCP longs.

The frame for paper-bag allows you to easily attach the paper bag and smoothly move the unit.

The new cutters make cleaning easier.

### SPCII-200 / SPCII-200S





ID200

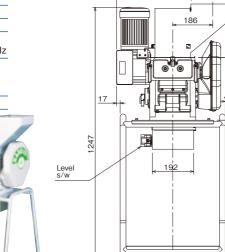
439

The hopper can be directed in three directions and no-tool detachable.

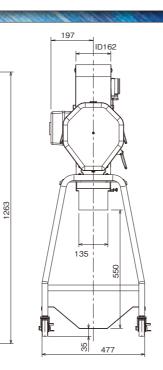
## SPCII-400 / SPCII-400S

Model	SPCII-400/SPCII-400S		
Power	3-phase 200VAC(50/60Hz)		
Motor output	0.4kw-4P		
Rotary cutters			
Press moving cutters	2.8mm×4.5mm 27 pieces 112.5 cycles / min(50Hz) 135 cycles / min(60Hz)		
Hopper mouth	200mm×162mm		
Sprue diam.	φ8mm or smaller		
Throughput	*90~120g/min		
Material Tank (volume)	N/A (material bag)		
Weight	95kg (S type:100kg)		
	0% glass fiber, er, 4g-weight. for a sprue,		

TPE, 6mm diameter. 3g-weight. (S type)



φ75 Stopper



ID120

304

348





operation.

Large casters are used.

lodel	SPCII-1500/SPCII-1500S		
Power	3-phase 200VAC(50 / 60Hz)		
lotor output	1.5kw-4P		
Rotary sutters	φ220mm 4 pieces 37.5rpm/50Hz 45rpm/60Hz		
Press noving sutters	3.8mm×6mm 45 pieces 112.5 cycles / min(50Hz) 135 cycles / min(60Hz)		
lopper mouth	402mm×360mm		
prue liam.	φ13mm or smaller		
hroughput	*Intermittent feeding, max.320~400g/min		
laterial Tank volume)	Approx. 4kg		
Veight	295kg		
	true for a 9g, 6mm diameter		

sprue containing 20% six nylon glass.

\*This value is for a sprue, TPE, 6mm diameter,

φ125 Stopper 3g-weight. (S type)

### SPCII-750 / SPCII-750S

Model	SPCII-750/SPCII-750S		
Power	3-phase 200VAC(50/60Hz)		
Motor output	0.75kw-4P		
Rotary cutters	φ176mm 4 pieces 37.5rpm/50Hz 45rpm/60Hz		
Press moving cutters	2.8mm×4.5mm 41 pieces 112.5 cycles / min(50Hz) 135 cycles / min(60Hz)		
Hopper mouth	246mm×285mm		
Sprue diam.	φ8mm or smaller		
Throughput	%150~200g/min		
Material Tank (volume)	Approx. 9kg	955	
Weight	145kg (S type:150kg)	20	
	0% glass fiber, er, 4g-weight. for a sprue, iameter,	¢75 Stopper	



The hinged hopper ensures safety

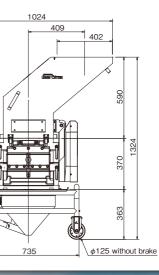
The hopper faces in three directions and can be clamped.

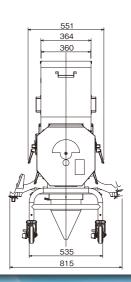


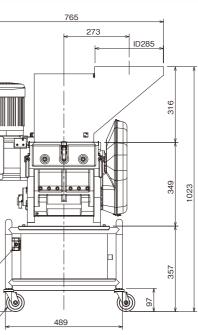


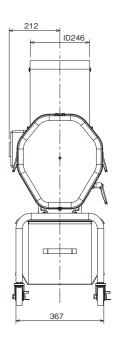
Standard suction tank

Small grain type blades are available as option.





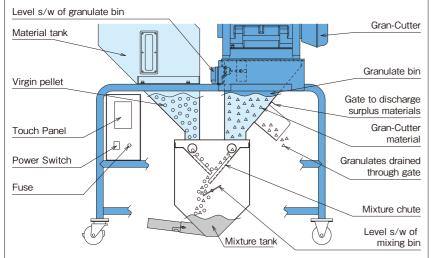




# GMII-t Series (Mixer)

# **GRAN Mixer** Mixing Virgin and Gran-Cutter Materials at Once Introduced with stylish design







The equipped touch panel and buzzer alert you when the unit stops with an error.

- Easy material exchange.
- Cleaning the inside of the Gran Mixer is easy without any tool.
- Mixed virgin and recycling materials are stored in the mixture tank without any wings or blades.

## Version up, becomes easier to use [GMII/MBII series]



Fixing the motor to the frame eliminated the steps for removing the motors during clean-up.



the buzzer alert you when the bin is full. The provided container can be used to receive surplus materials.

The touch panel and

(GMT only)

## Easier measuring with the improved mixing screws

The measurement procedure for mixing is drastically improved compared to the conventional unit. The lid on the mixing tank can serve as a table to put the



included measuring cups. The screw automatically stops by the timer when measuring the materials.

### **Finger-tip operations** with the touch panel

- <sup>①</sup>Measure the virgin pellet (V) and the granules (R) with the measuring cup. Repeat for a few times and enter the measurements. The unit starts to run the reference measurement
- 2 The unit automatically calculates and saves the average of the reference measurements, and then transfers the average value.
- 3 Enter the molding conditions. The unit automatically configures the number of screw rotations.
- (4) The unit compensates the difference between the actual measurements and the provisional calculations.





### GMII-200t / GMII-200St · GMII-400t / GMII-400St · GMII-750St / GMII-750St

Model	GMII-200t/GMII-200St	GMII-400t/GMII-400St	GMII-750t/GMII-750St
Power	3-phase 200VAC(50/60Hz)	3-phase 200VAC (50 / 60Hz)	3-phase 200VAC (50 / 60Hz)
Motor output	0.2kw-grounding 4P	0.4kw-grounding 4P	0.75kw-grounding 4P
Rotary cutters	φ98mm 4 pieces 37.5rpm∕50Hz 45rpm∕60Hz		¢176mm 4 pieces 37.5rpm/50Hz 45rpm/60Hz
Press moving cutters	2.1mm×3.5mm 24 pieces 2.8mm×4.5mm 20 pieces(S type) 75 cycles / min(50Hz) 90 cycles / min(60Hz)	2.8mm×4.5mm 27 pieces 112.5 cycles / min(50Hz) 135 cycles / min(60Hz)	2.8mm×4.5mm 41 pieces 112.5 cycles / min(50Hz) 135 cycles / min(60Hz)
Hopper mouth	120mm×120mm	162mm×200mm	246mm×285mm
Sprue diam.	φ6mm or smaller	φ8mm or smaller	φ8mm or smaller
Throughput	%30∼40g/min	%90~120g/min	%150~200g/min
Material tank capacity	Approx. 25kg	Approx. 25kg	Approx. 25kg
Granule tank capacity	Approx. 4.0kg	Approx. 4.0kg	Approx. 4.0kg
Mixing tank capacity	Approx. 3.5kg	Approx. 3.5kg	Approx. 3.5kg
Weight	109kg(S type:114kg)	139kg(S type:146kg)	184kg(S type:189kg)

\*\*This value is for a sprue, nylon with 20% glass fiber, 6mm diameter, 4g-weight. \*\*This value is for a sprue, TPE, 6mm diameter, 3g-weight.(S type)

