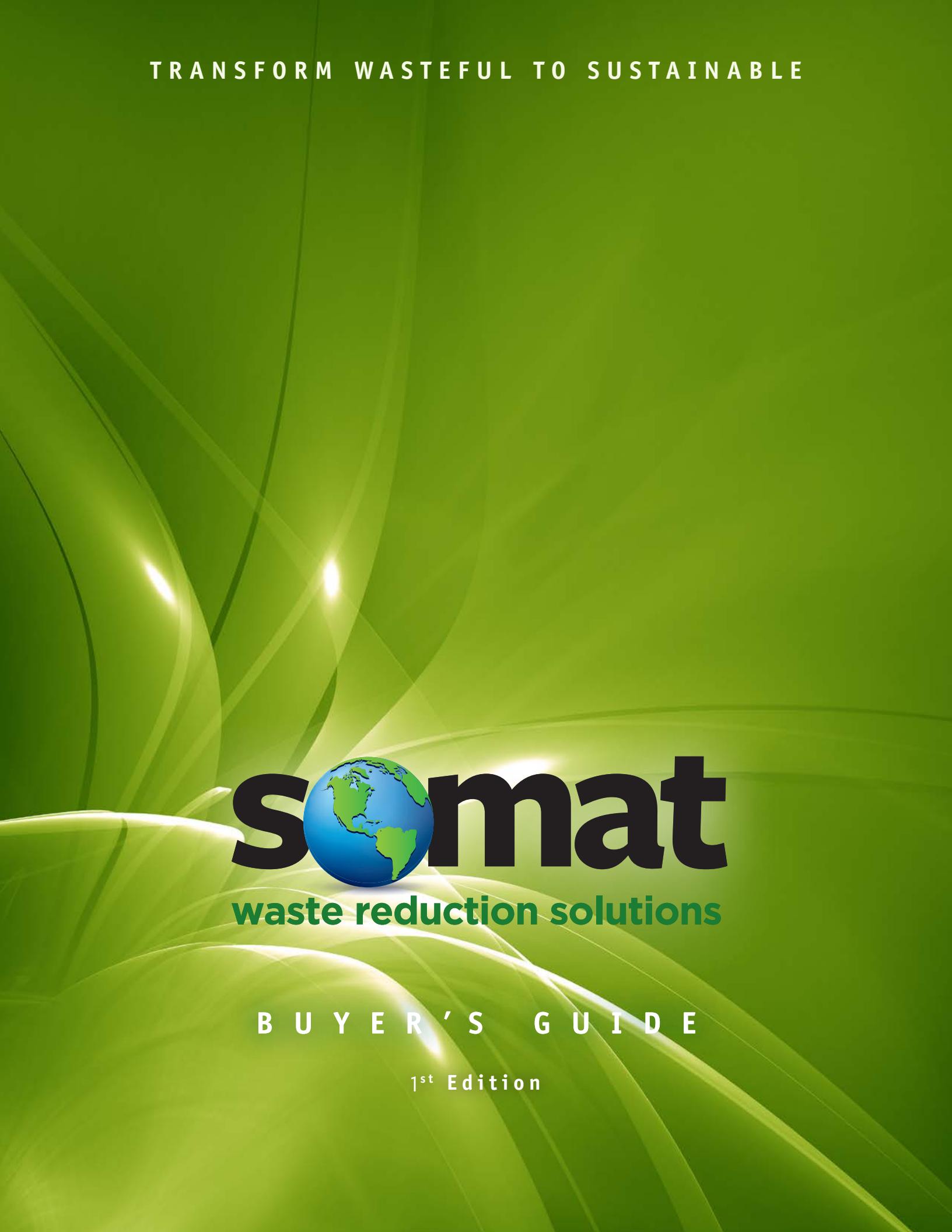


TRANSFORM WASTEFUL TO SUSTAINABLE



**somat**  
waste reduction solutions

BUYER'S GUIDE

1<sup>st</sup> Edition



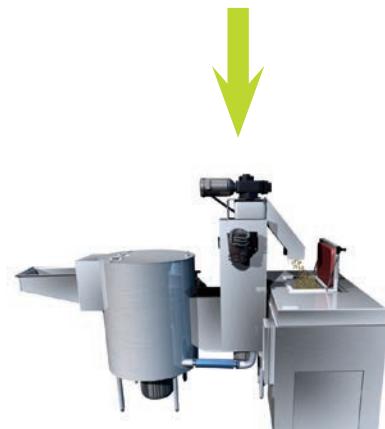
## Why is Waste Reduction Equipment Important?

### U.S. food waste is a growing concern.

An estimated 30-40% of our food supply is discarded, creating 133 billion pounds of food waste annually.



Foodservice waste



Processed waste  
from the Somat System



Compost to be used as a rich soil amendment



Healthy produce grown  
from the rich soil

### Landfill diversion.

Today in the U.S., there are over 1,900 municipal solid waste landfills. By diverting food waste from landfills, we can preserve natural resources.

### Labor reduction.

Major cities across the country from Seattle to New York City have recently enacted minimum wage increases. Somat Systems reduce waste volume from 8:1 at the collection source, significantly lowering the amount and frequency of waste removal.

Somat's waste reduction equipment can address a broad range of operational scenarios. We have the equipment to fit your needs, space, and waste reduction goals.

**Let's talk. Contact Somat today.**

(References: USDA.gov; EPA.gov; IBISWorld Industry Market Research; Recyclingtoday.com)

## STANDARD FEATURES

- Hinged pulper lid with limit switch
- Hydra-Extractor
- 3 HP recirculating pump
- Valve package
- Chemical additive pump
- Som-A-Trol electrical control panel

## TECHNICAL SPECIFICATIONS

### Pulper:

- Polished stainless-steel tank
- Hinged lid with limit switch
- 3/8" stainless slurry chamber
- Internal collection box
- "Hypoint" style cutting mechanism, featuring stainless steel impeller

### Hydra-Extractor:

- Welded stainless steel construction
- Stainless steel adjustable legs
- 2 HP TEFC drive motor
- 20:1 gear reducer
- 3HP TEFC recirculating pump
- Chemical pump
- 6" stainless steel auger with nylon brush edge
- Reinforced stainless steel screens
- Automatic shutdown timer
- Automatic rinse system
- Discharge chute with safety switch

### Valve Package:

- All valves required for operation including fresh water, return and drain lines.

### Som-A-Trol Electrical Control Panel:

- UL approved stainless steel NEMA 4x panel with all components pre-wired to internal terminal strip. Push-button control station on panel door (remote control station optional). Panel to be wall mounted with field connection to the pulper's mounted junction box.

## VOLTAGE OPTIONS

- 208/60/3
- 230/60/3
- 460/60/3
- International options available, consult factory

# Close Coupled Pulping System SPC-50S | SPC-75S

Somat close coupled pulping systems provide an economic and efficient answer to cutting the high and ever-increasing costs associated with foodservice waste handling. Somat Pulping Systems are engineered to reduce waste volume by eliminating void spaces and liquids providing an 8 to 1 reduction in volume (up to 85%). Compostable waste enters the pulping tank via the feed tray or scrapping trough where it mixes with water and is ground into a slurry. The slurry is fed to the Hydra-Extractor® for de-watering and the result is a semi-dry pulp discharged into a haul-away container or a Somat Dehydrator for additional reduction. The extracted water is recovered and returned to the pulping tank.

### OPTIONS

- Water flushed feed tray
- Trough feed connection
- Feed tray cover
- Prison package
- Under dish table unit
- Vibration pads
- Remote push button station
- Grabber magnets



Model	Pulper HP	VOLUME	TANK SIZE	Pulper Blades
SPC-50S	5 HP TEFC	900 lbs. food waste per hr.	23" Diameter, 39" high	3 Stationary Blades, 8.5" Impeller
SPC-75S	7 1/2 HP TEFC	1,250 lbs. food waster per hr.	30" diameter, 39.5" high	4 Stationary Blades, 14" Impeller

# A Somat Remote System at Work

The main benefits of a Somat Remote Pulping System are Reduction and Transportation. A remote system connects food prep and scrapping areas together through a series of piping and transports food service waste to a remote extractor. The extractor removes the solids (pulp) and recirculates the water back to the grinding tanks. The pulp is fed into a Somat Dehydrator for additional reduction or directly into a dumpster. A remote pulping system eliminates the need for trash cans, liners and laborers to "take out the trash".

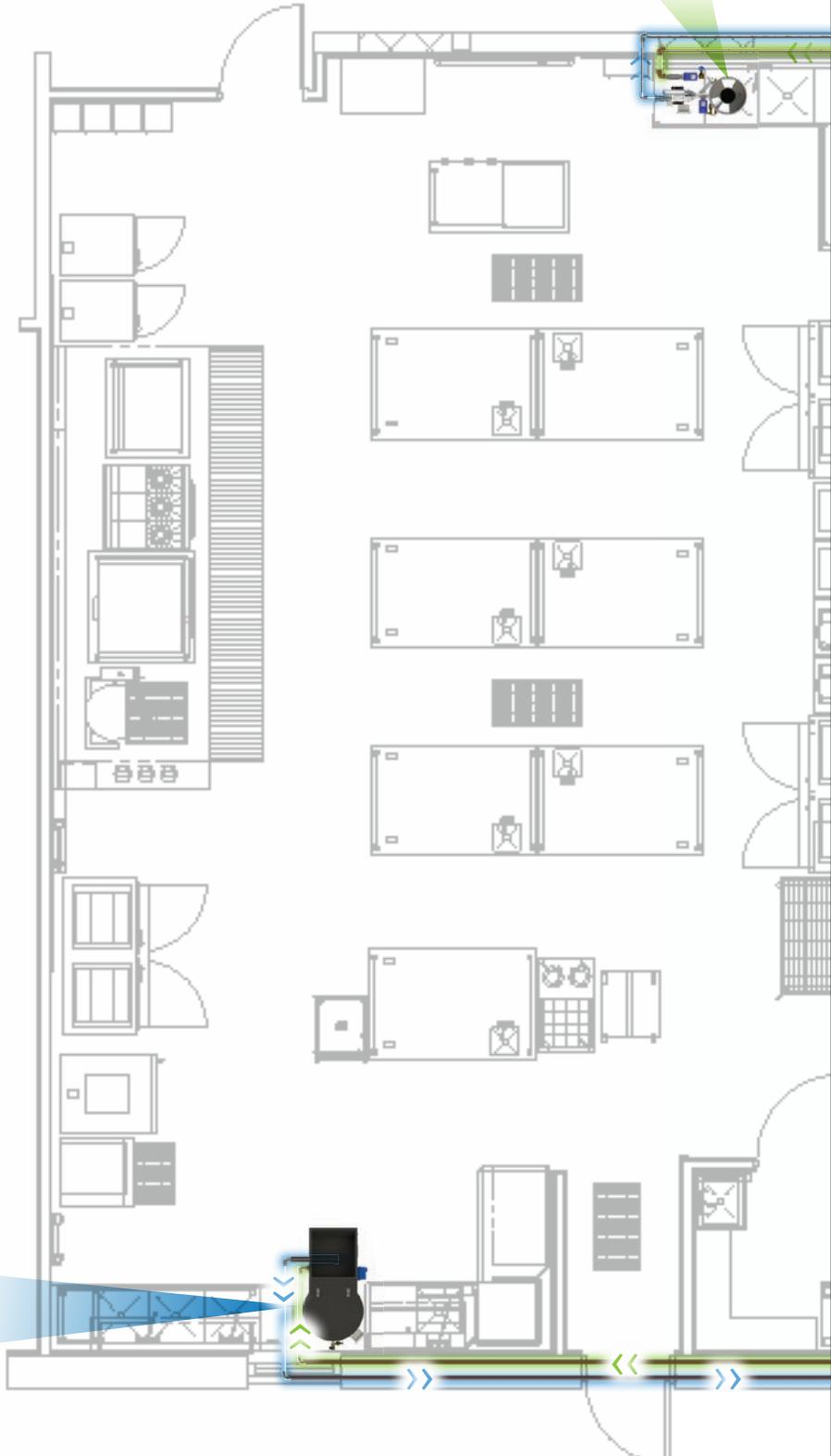
## D-5 Food Waste Grinder

Food grinders are designed to handle food waste only. These compact 5hp grinders are strategically placed in pot and pan washing and food prep areas. The D-5 food grinder can be mounted to a cone, sink, or trough.



## SP-75 Remote Pulper, Tray Feed

This Somat SP-75 is engineered with a tray feed allowing the operator direct access to the pulper. Food service waste is placed in the tray and recirculated water pulls the waste into the cutting chamber. The waste is ground into a slurry and pumped to the extractor.



*Layout Design:*

*Melvin C. Welch, Total Design Consortium*

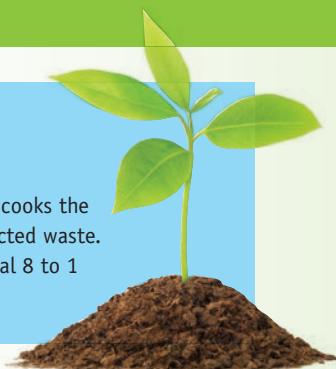
## SP-75 Remote Pulper, Trough Feed

This Somat SP-75 is connected to a scrapping trough. Food service waste is scrapped into the trough and recirculated water pulls the waste into the pulper. Troughs are engineered in many different lengths and designs to fit most dish rooms.



## DH-100 Dehydrator

The DH-100 holds up to 220lbs and cooks the remaining moisture out of the extracted waste. The dehydrator provides an additional 8 to 1 reduction in volume and in weight.



## HE-9 Extractor

All the food service waste that is processed in the pulpers and food grinders is pumped to the HE-9 Extractor, also known as a water press. The extractor squeezes the water out of the waste and pumps the water back to the grinder tanks for reuse. The food service waste is now reduced by 8 to 1 in volume and about half the weight. The waste falls down the chute into the dehydrator or a container for disposal.

## D-5 Food Waste Grinder

Food grinders are designed to handle food waste only. These compact 5hp grinders are strategically placed in pot and pan washing and food prep areas. The D-5 food grinder can be mounted to a cone, sink, or trough.



# Waste Dehydrator

## DH-100

The Somat DH-100 is a waste management system that processes waste for medium to large foodservice facilities and institutions. Compostable waste is dehydrated using an energy efficient and automated process. The DH-100 is easy to install, maintain and requires no fresh water connection. Paddles macerate the waste, heated by the unit's storage chamber to kill any bacteria, reducing the waste matter by up to 93%. The resulting product is a dry, earthy material that may be used as an accelerant in a composting process. Somat's patented Dryness Sensing Technology allows for proper processing time regardless of batch size. Combine with a Somat Pulper for a complete waste management system.

### OPTIONS

- Self greasing bearings
- Cold weather package – Allows the dehydration process to occur at temperatures down to 15°F; consult factory for details



### STANDARD FEATURES

- 304 stainless steel construction with polished exterior
- Mechanical agitation
- Insulated chamber oil jacket
- Sealed inlet and output doors
- Agitator stops when door is opened
- Stand alone, portable design
- 50-220 lb. input capacity
- 8-18 hour treatment time depending on load size
- One-touch, fully automatic controls
- Condensate drain line provided
- Patented dryness sensing technology

### VOLTAGE OPTIONS

- 208V 60cy 3ph
- 220V 60cy 3ph
- 480V 60cy 3ph
- International options available

### BENEFITS

- 83-93% waste reduction
- Designed for medium to large scale facilities
- No enzymes or additives required
- Low labor cost, one person operation
- Low maintenance
- No fresh water connection
- Recycles heat energy
- Processes food waste and compostable disposables
- Reduces/eliminates hauling costs

MODEL	POWER SUPPLY	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	POWER CONSUMPTION	DIMENSIONS (W x D x H)
DH-100	208-220V/3Ø/60Hz	30A	4.0 kw	45" x 37.5" x 44.5"

## STANDARD FEATURES

### Food Grinder:

- 5 HP motor
- 10 5/8" diameter turntable constructed of hardened ductile steel alloy
- 24 grinding teeth with 8 1/4" throat opening
- Flexible neoprene installation collar eliminates vibration
- Bolt on motor and grind chamber for easy replacement
- Adjustable legs for leveling
- Shaft extension to externally de-jam foreign matter
- Heavy duty cast alloy construction

### Mini Press:

- 3/4 HP drive motor
- 6" stainless steel vertical auger with brush tipped flighting
- Screen with .093" diameter holes
- Discharge chute with magnetic limit switch

### Som-A-Trol® Electrical Control Panel:

- UL approved stainless steel NEMA 4x panel with all components pre-wired to internal terminal strip. Push Button control station on panel door (remote control station optional). Panel to be wall mounted with field connection to MP4/B5 mounted junction box.

### Valve Package:

- Pre-piped to include all valves required for operation

## ELECTRICAL

- 208/230/460 volt, 3 Phase, 60 Hertz

## CAPACITY

- 700 pounds per hour of food waste only

## BENEFITS

- As much as 8 to 1 (85%) volume reduction
- Uses fresh water for sanitary areas
- Small footprint
- Keeps solids from municipal waste system
- Simple operation and maintenance

# Food Waste Reduction System MASTER MP4/B5

The MASTER MP4/B5 Food Waste Reduction System features a Master B-5 Food Grinder, MP4 Mini Press and a SOM-A-TROL control panel with pushbutton station. The grinder can be mounted in a trough, table or sink. Food waste enters the grinder and mixes with water where it is ground into a slurry. The slurry is gravity fed through a pipeline to the MP4 Mini Press, where water is removed and the resultant semi-dry pulp is discharged into a haul-away container. The extracted water can be recovered and returned to the grinder with an optional return pump. The MP4/B5 Food Waste Reduction System can be engineered to fit in most scrapping areas, existing or new. It can even replace a current disposer. The MP4 Mini Press can be installed anywhere within 8 feet of the grinder. It can face any direction and it can even fit under a table to maximize space.

### OPTIONS

- Sink mount
- Bowl mount
- Trough mount with return pump



MODEL	POWER (ELECTRIC) CONNECTION	FRESH WATER CONNECTION	DRAIN CONNECTION	CAPACITY
MP4/B5	208V-25A; 460V-15A 3Ø 60Hz	1/2" cold water @ 30 psi, 2 gpm	2" drain to 3" minimum floor sink	700 lbs/hr.

# Realize 8:1 Reduction in Waste Volume

## System Of Maceration And Transportation

### MACERATION

Compostable waste enters the pulping tank where it mixes with water and **ground** into a slurry. The slurry is fed to the Hydra-Extractor for dewatering producing a semi-dry pulp discharged into a haul-away container. Extracted water is recovered and returned to the pulping tank for re-use.

### TRANSPORTATION

Slurry (waste stream) from a Somat Pulping System is 95% water and can be **pumped** to a remote location for dewatering and disposal. A Somat Remote System can take waste from the scrapping area to the dumpster in seconds while reducing volume up to 8 times.

For more information, visit us online at [www.somatcompany.com](http://www.somatcompany.com) or call us at **1-800-237-6628**.



CONNECT WITH US

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