

 **Vaughan**[®] **Food**
Processing
Applications





Chopper Pumps

With over 40 years of pump experience and in excess of 20,000 pump installations, Vaughan has proven technology in long term, low maintenance and the highest reliability of any chopper pump. The patented chopping action of the cupped-and-sharpened impeller blades chops and conditions all incoming solids, eliminating pump and piping plugging. Vaughan's unique features necessary to provide this reliability include:

- Patented chopping design
- Wear parts heat treated to extend pump life
- Oversized shafting and bearings
- Heavy duty mechanical seals
- Adjustable back pull-out design

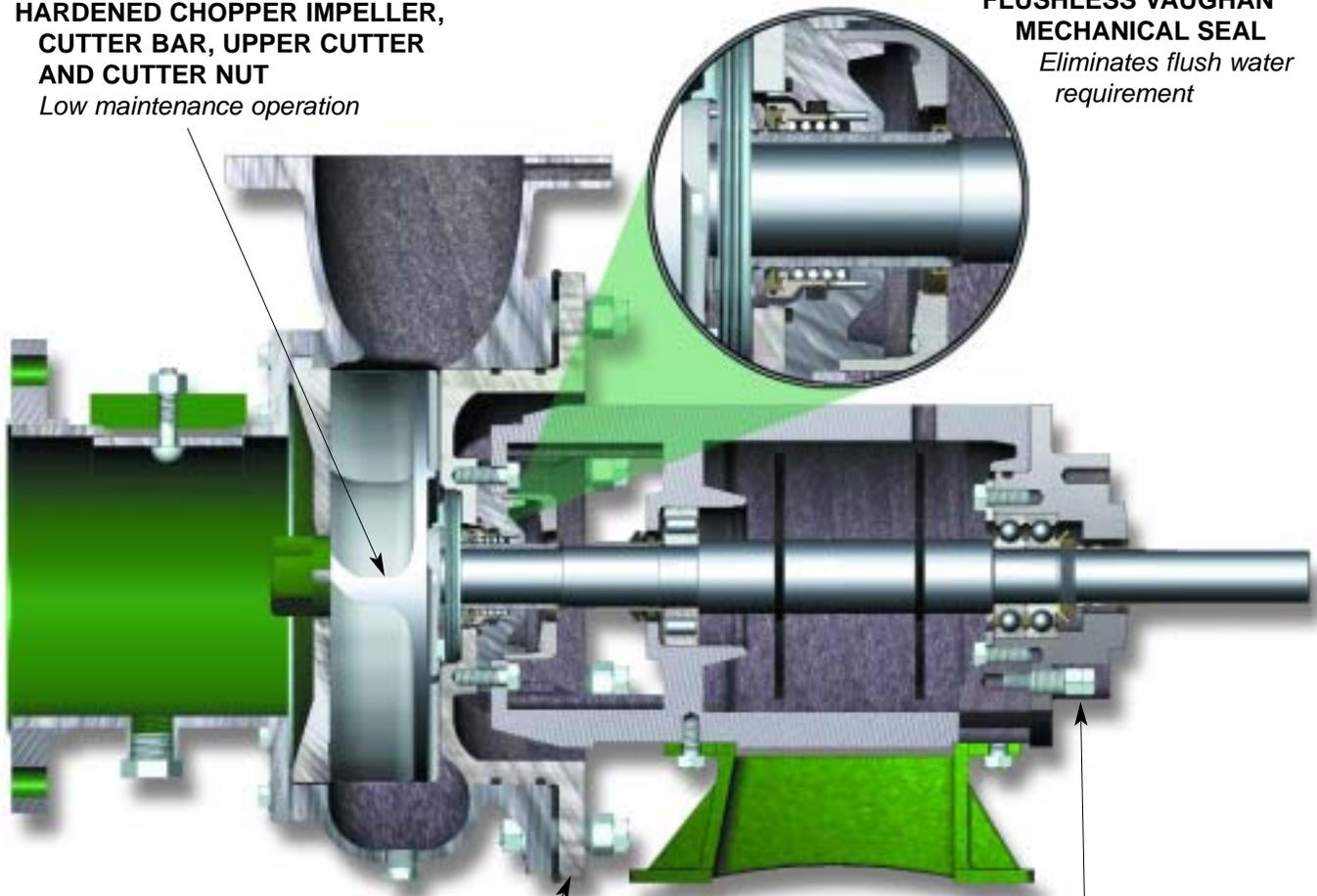
- Almonds
- Blood
- Carrots
- Chickens & Turkeys
- Corn Husks, stalks
- Ears, Hair, Hooves, Horns
- Fat
- Feathers
- Fish Offal
- Fleshings & Hide Pieces
- Onions
- Peppers
- Pomegranates
- Potatoes
- Tomatoes
- Washdown sumps

HARDENED CHOPPER IMPELLER, CUTTER BAR, UPPER CUTTER AND CUTTER NUT

Low maintenance operation

FLUSHLESS VAUGHAN MECHANICAL SEAL

Eliminates flush water requirement



ADJUSTABLE BACK PULL-OUT CASING

Allows external adjustment of impeller-to-cutter bar clearance without disconnection from piping

ADJUSTABLE DRIVE END

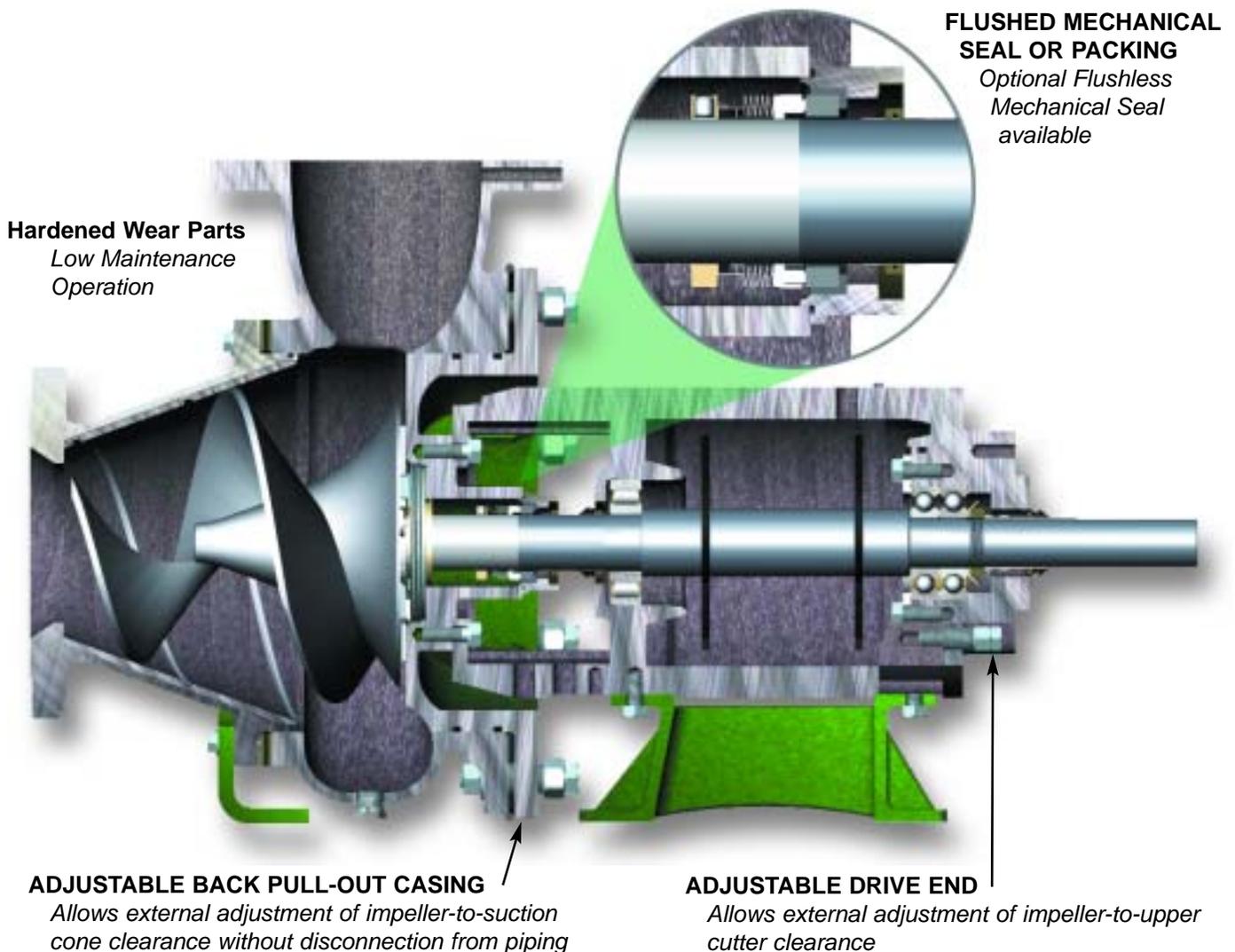
Allows external adjustment of impeller-to-upper cutter clearance

TRITON *Screw Centrifugal Pumps*

The Triton® screw centrifugal pump combines the benefits of Vaughan's superior pump designs with the advantages of high efficient, non-clogging performance. The Triton screw centrifugal pump's open channel impeller is ideal for handling large whole solids, shear sensitive fluids and delicate or highly abrasive materials.

Unique features include steep performance curves, non-overloading power characteristics, heavy-duty power frames, flushless mechanical seal design to eliminate water flush requirements, or an optional standard power frame with water flushed mechanical seal or packing.

- Apples
- Evaporators
- Flume Water
- Fruits
- Lemons
- Mud Slurries
- Olives
- Oranges
- Potatoes
- Vegetables
- Wash Water
- Wine Must



Vaughan chopper pumps and Triton screw centrifugal pumps are available in several configurations and sizes to suit most needs for food and waste processing applications. Flow rates range from 50 to 8000 USGPM. Materials of construction available include ductile iron, hardened steel, high chrome iron, 316 stainless steel and CD4MCu hardened stainless steel. Standard delivery is 4 to 6 weeks, and all parts are readily available from stock for expedited delivery. All Vaughan chopper pumps include a written Performance Guarantee - your assurance of clog-free operation.



Vertical Wet Well

- Vaughan's most popular sump pump.
- Reliable mechanical seal/oil bath design.
- Eliminates suction piping.
- Keeps motor and wiring out of the pit.



Cantilever

- Eliminates submerged seals and bearings.
- Best for severe abrasive service.



Electric Submersible

- Popular for waste sumps.
- Retrofits to most guide rail systems.
- Ideal for deep sumps.
- Available with rail system or portable.



Hydraulic Submersible

- Portable pump for tank cleaning.
- Lighter weight than other submersibles.
- Ideal for mobile equipment.



Horizontal

- Various sealing systems available.
- Direct or belt drive.
- Adjustable back pull-out design.



Pedestal

- Used primarily in dry well applications where floor space is limited.
- Various sealing systems available.
- Adjustable back pull-out design.



Recirculating

- Allows Wet Well and Submersible Pumps to be used for mixing and pumpout.
- Ideal for mixing of floating or settled solids.



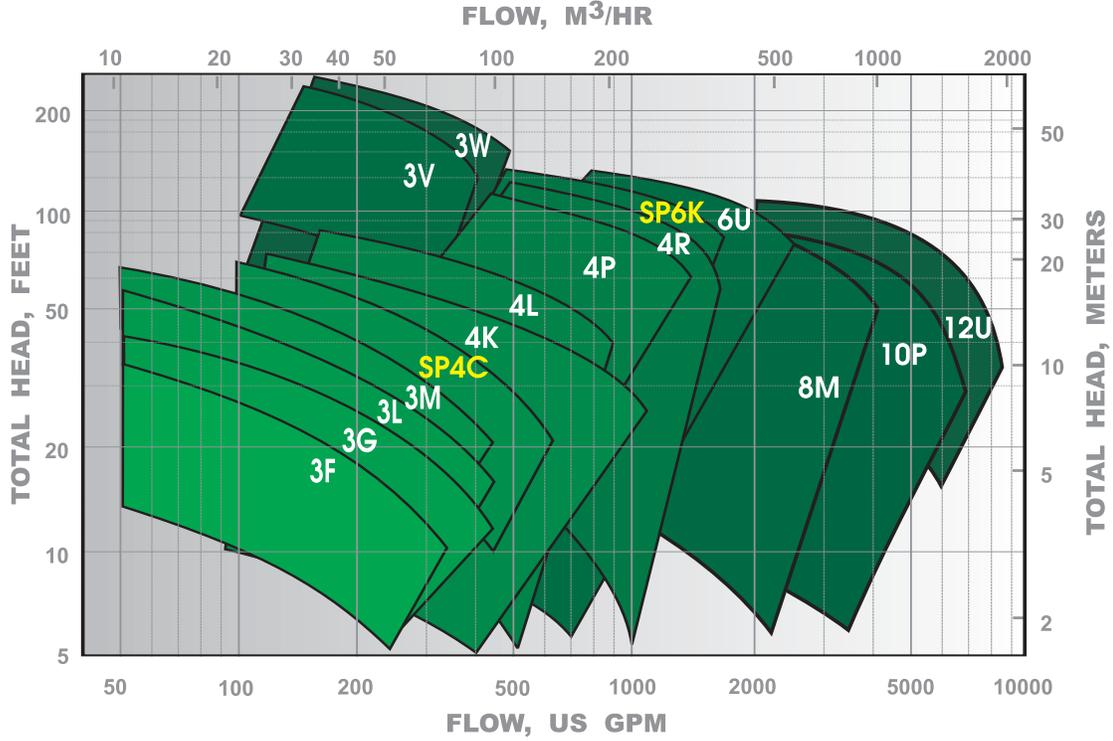
Self-Priming

- Direct or belt drive.
- Adjustable back pull-out design.
- **NOT AVAILABLE IN TRITON SCREW CENTRIFUGAL.**

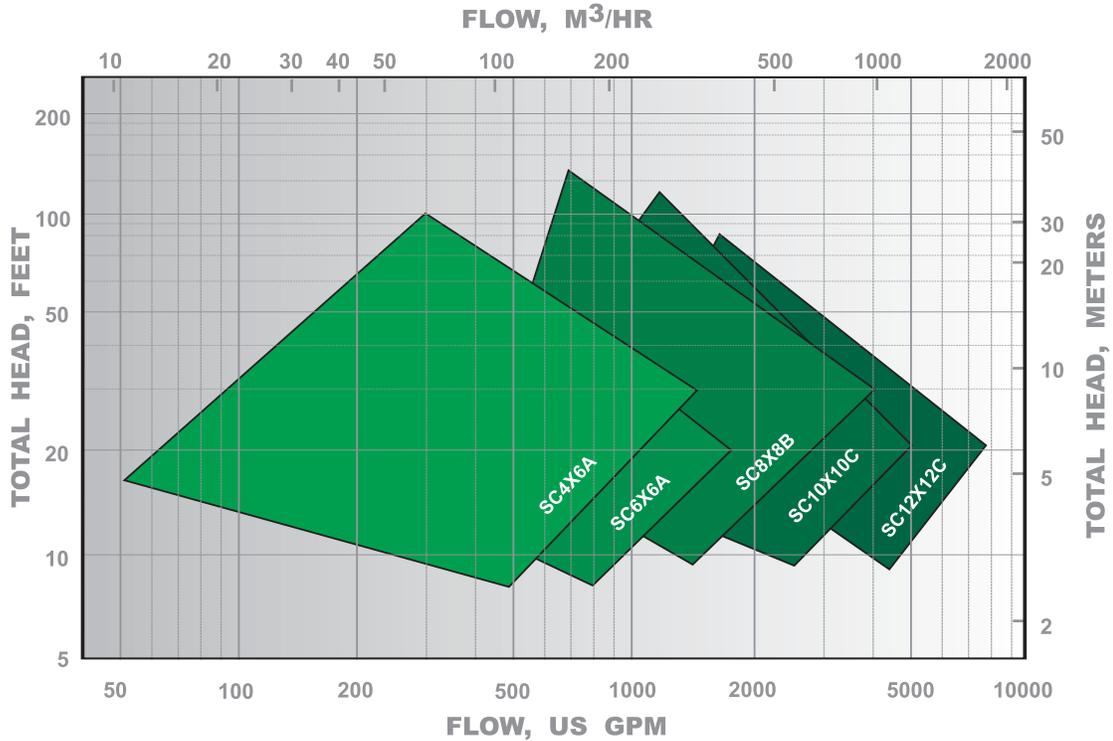


Performance Coverage

Vaughan Chopper Pumps



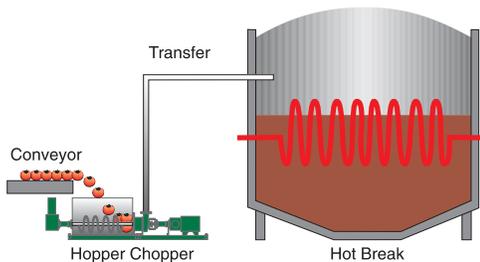
Triton Screw Centrifugal Pumps



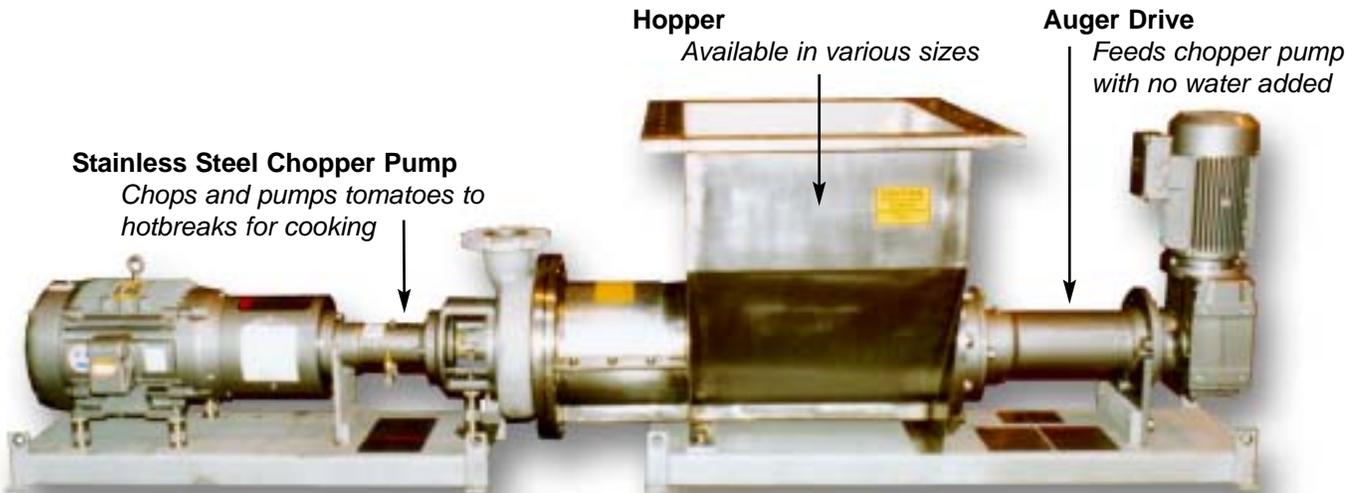
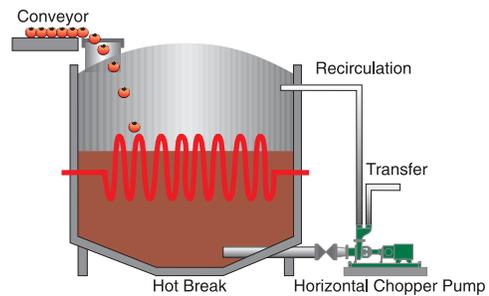
Vaughan's Hopper Chopper system creates a tomato slurry and pumps directly to the hotbreaks, by using a specially design auger to feed the chopper pump. Installation of the Hopper Chopper replaces the need for a separate chopper, transfer pump, and in some cases, an additional conveyor. The Hopper Chopper system transfers product at up to 100 tons/hour.

Vaughan Horizontal End Suction Chopper Pumps can also be used to chop and recirculate whole tomatoes from the bottom of the Hotbreak to the cooker vessel above the coils. Once the product has reached the desired consistency, the slurry is pumped to the finishers. All materials of construction for components contacting the product are 316 stainless steel and all lubricating fluids are food grade oil.

Transfer to Hotbreak



Recirculation

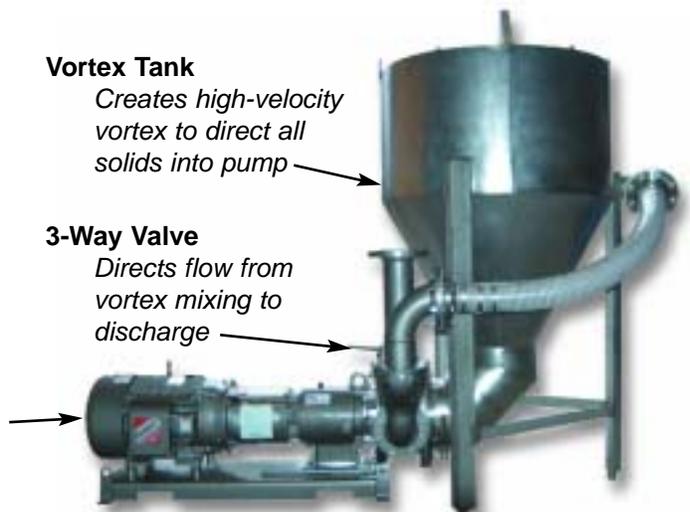


Vaughan's Vortex Chopper is a combination HE4R pump with pre-grinder system and oversized inlet, tank and three-way valve system designed to slurry a variety of products, including dead chickens, potatoes, tomatoes, onions, etc., with little water added. The product is recirculated in the cone-shaped tank, where a vortex action force-feeds product into the pump. After a completely homogeneous slurry is obtained, the three-way valve allows discharge of the tank. This system is available in standard steel or stainless steel construction.

Vortex Tank
Creates high-velocity vortex to direct all solids into pump

3-Way Valve
Directs flow from vortex mixing to discharge

Chopper Pump with Pre-Grinder
Chops and grinds whole solids with little water added



Testimonials



"We've recently changed our process, which required replacing an iron food pump with a stainless steel unit, on a system that transports delicate apple slices in solution. Vaughan responded with a favorable price and quick delivery, neither of which the other pump manufactures could provide. The pump has operated flawlessly since start-up and we've also noticed a reduction in product degradation due to the change in pump styles. We've trusted Vaughan for years with our waste system chopper pumps and now they've proven they can come through on the food side as well"

Les Wright, Maintenance Manager
Tree Top, Inc.
Selah, WA



"Our Vaughan pumps have successfully handled the skin, bones, feathers and occasional fillet knives from turkey processing since 1996."

Bill Laney, Engineering Manager
Foster Farms, Inc.
Turlock, CA



Partial Users List - Food Processors

AE Staley
Agripac
All Alaska Seafoods
Alyeska Seafoods
Anhaeuser-Busch
Archer Daniels
Arctic Alaska Seafoods
Baker Commodities
Basic American Foods
Basic Vegetable
Bellingham Frozen Foods
Blue Diamond Growers
Bolthouse Farms
Bush Brothers
Butterball Turkey
Campbell Soup
Cargill Foods
Carnation
Carolina Golden Product
Christopher Ranch
Columbia Ward Fisheries
ConAgra
Coopers Foods
Coors
Dannon
Deep Sea Fisheries
Del Monte
Dixon Canning
Dole Fresh Vegetables
Eagle Snacks
Escalon Foods
Excel Corporation
Farmans Pickles
Farmer John's
Fircrest Farms
Flavorland Foods
Foster Farms
Fresh Express
Frito Lay
Gallo Sonoma Winery
General Foods
Georgia Protein
Gilroy Foods
Giorgio Mushroom

Golden Valley Produce
Goldkist
Grimmway Farms
Harris Ranch
Haverpride Farms
Heck Cellars
Heinz
Holly Farms
Holly Hill Fruit
Hudson Foods
Hunts Foods
IAMS Company
Icicle Seafoods
Ingomar Packing
Iowa Beef Processors
Jerome Foods
J.R. Simplot
Kal-Kan Foods
Kellogg
Knoxville Byproducts
Kraft Foods
Lamb Weston
Leprino Foods
Liberty Packing
Lipton Foods
Los Gatos Tomato
McCormick & Schilling
Mercer Ranch
Merck
Mid-America Potato
Morning Star
Mt Olive Pickle
Nabisco
National Beef
National Byproducts
National Fruit Company
National Starch
Nestle
Norpac Foods
Nut Tree Pecan
Ocean Spray
OK Foods
Ore-Ida Foods
Pacific Coast Producers

Packerland Packers
Paramount Citrus
Pepsi Bottling
Peter Pan Seafoods
Peter Rabbit Farms
Pilgrims Pride
Pillsbury Company
Purina Mills
Ready-Pac Produce
Rio Bravo Foods
Rocco Farm Foods
Ruiz Foods
Salad Time
Samoa Packing Company
San Benito Foods
Sanderson Farms
Seattle Rendering
Seneca Foods
Shamrock Meats
Shapero Packing
Shasta Beverages
SK Foods
Stanislaus Food
Stokley USA
Tasty Bird
Tayler Farms
Toma Tek
Tom's Foods
Tree Top
Tri-Valley Growers
Tropicana
Tyson
Ultramar
Unilever Foods
Universal Foods
Valley Canning
Wampler Longacre
Washington Beef
Watts Brothers
Welch's
Winter Garden Fruit
Yoplait Yogurt

LOCAL FACTORY REPRESENTATIVE:



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