

Viscous Pumping Systems

Pumping, Metering & Extruding



- specifically designed for sticky and thick products
- reduce labor and minimize material handling cost



 **AMERICAN
PROCESS
SYSTEMS**
Member Eirich Group

Air Free Viscous Pumping

Process A

The American Process Systems "VP" series of pumping, metering & extrusion systems is based on twin, counter-directional augers and an auger feed roller that gently delivers an air free product.

Reduce Operating Costs

- increase labor efficiency
- eliminate multiple handling & toting
- feed cold blocks (butter, shortening) without tempering
- supply multiple mixers from one pump feeder
- meter accurately
- maximize blender capacity
- reduce mix times



Process Applications

- accurate metering (+/- 1%)
- pumping downstream
- extruding/co-extruding
 - ropes
 - blocks
 - logs
 - any custom shape
- in-line mixing
- homogenizing
- sheeting
- portioning
- feeding other equipment

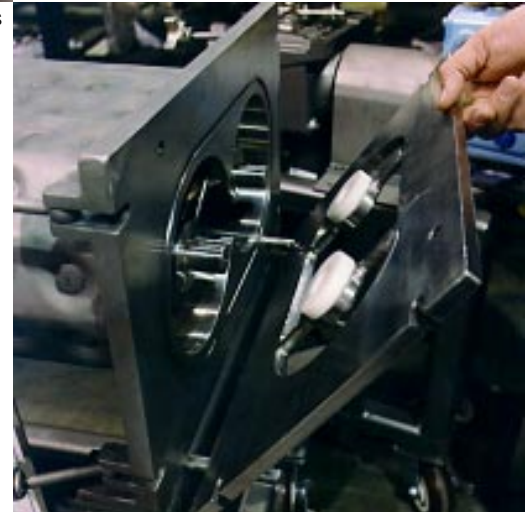


Convenient, Portable Systems

Timed Augers And Auger Feed Roller For Block Or Bulk Products

Sanitary Product Applications

- taffies
- shortening
- cold butters
- doughs
- gummies
- fruit chews
- candies
- caramels
- peanut butter
- chewing gum
- cream fillings
- frostings
- chocolate
- nut bars
- granolas
- ice cream
- ice cream flavorings
- cheeses
- pet food
- product re-work
- and many others



Front Auger Journal Prevents Metal-To-Metal Contact

Streamline Your Process

- feed to or discharge from multiple mixers with one mobile unit
- accurately meter additions for batch or continuous processes
- extrude directly from upstream process
- transport product through piping without product loss
- eliminate air pockets

Non-Sanitary Product Applications

- putties
- soap
- sludge
- caulking
- silicone
- caulk
- clay
- emulsions
- raw sewage sludge
- and many others

Automation

Easy Clean Up

The VP series systems are specifically designed to handle high viscosity products of up to 20 million cps and rates of up to 50,000 pounds per hour for product transportation, texturizing, extruding or sheeting.



Dual Chamber ASME High Pressure Dimpled Jacket

Construction

- 304, 316 stainless steel
- carbon steel, AR plate
- continuous welds
- mobile or stationery framework with hinged tubular frames
- ASME high pressure jacketing
- food/pharmaceutical designs
- USDA design features



Toolless Disassembly

Standard Features

- auger feed roller to reduce bridging
- tool-less disassembly
- 1, 2, or 4 augers/4"-16" diameters
- application specific controls
- Waukesha positive displacement pumps (others available)
- modular construction to meet product specific requirements
- single "O" ring seals
- heavy duty construction



Shower Shortening Or Other Product Into Blenders

Optional Features

A large variety of options are available to tailor the equipment to your specific application, such as

- single "O" ring, gland, mechanical, and lip seals
- extrusion nozzles and cutting devices
- sheeting heads
- spray systems
- ASME jackets
- heating and cooling packages
- high pressure pumping systems (to 3,000 psi)
- custom designed hoppers
- agitated leveling ribbons
- complete electrical systems
- product temperature/density metering controls



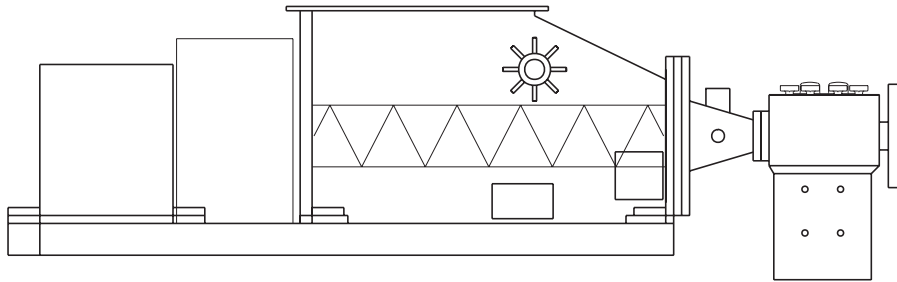
Agitated Leveling Ribbon To Reduce Bridging Or Product Segregation

Finishes & Coatings

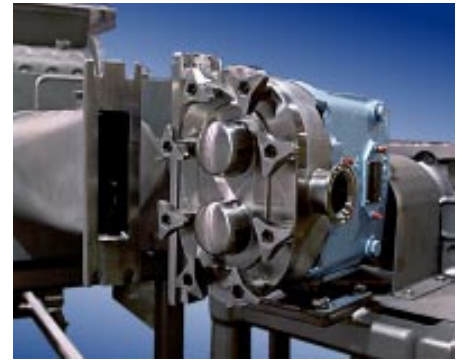
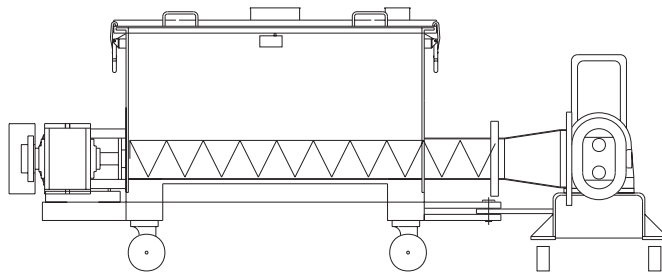
- #4 interior / bead blast exterior (standard)
- abrasion resistant coatings (Tungsten carbide; others)
- reduced friction coatings (Teflon; others)
- choice of polish
- electro-polishing

Typical Pump Feeder Designs

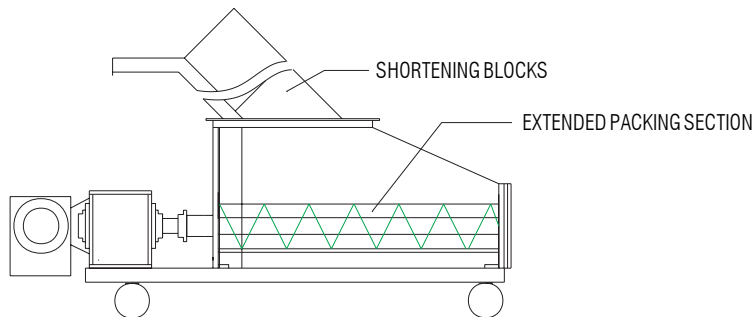
Horizontal Pump Configuration For Medium to High Viscosity Applications



Vertical Pump Configuration For Low Viscosity Applications



Grinders/Sheeters and Extruders



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