

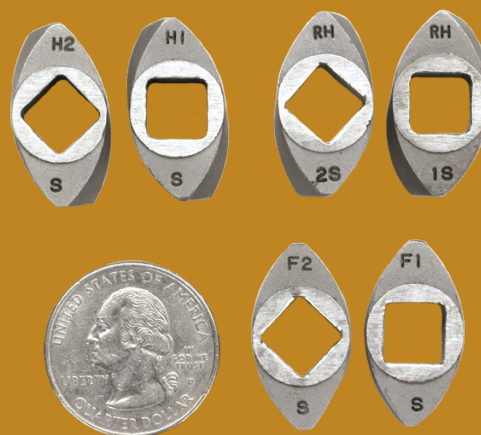
RK-1

LAB-SIZE CONTINUOUS PROCESSOR



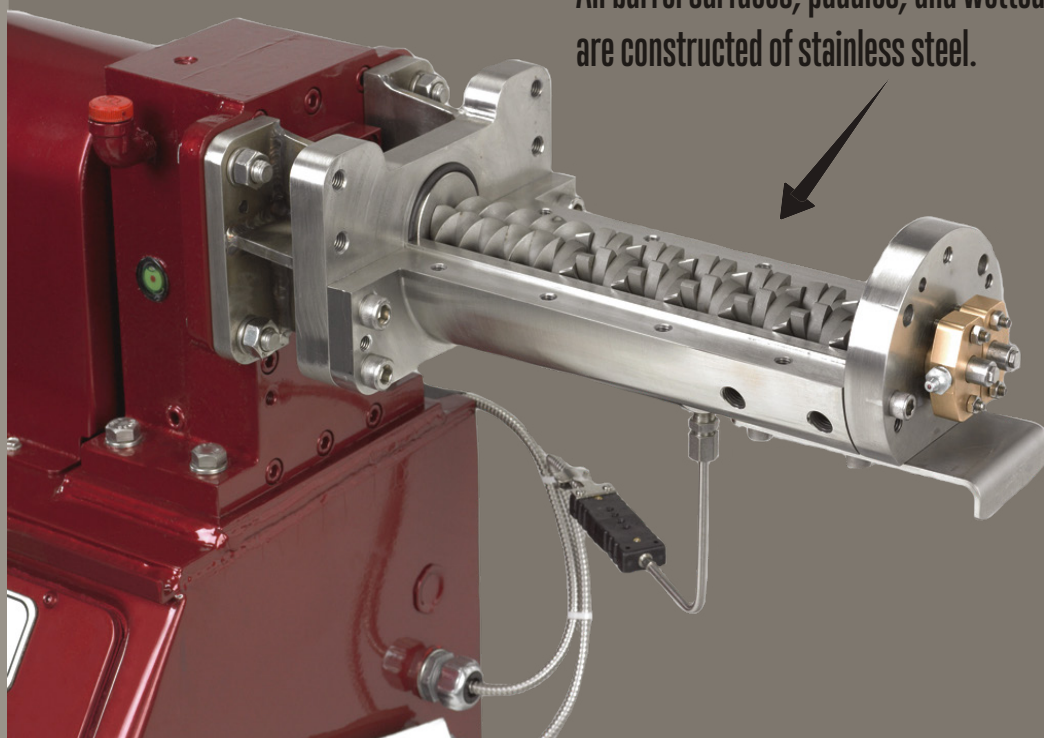
Ideal for pilot plants, R & D, educational, research environments, and experimental process formulation.

Ready to use and small enough for table top use, the RK-1 can be used wherever and whenever necessary. This versatile machine is capable of producing small sample sizes that reduce the amount of material used while increasing time for formula optimization.



Actual Paddle Size!

All barrel surfaces, paddles, and wetted components are constructed of stainless steel.



How small is it?

Overall Dimensions:	45.75" L x 14.75" W x 20.65" H 116.21 L x 37.47 W x 52.45 H (cm)
Mixing Chamber:	1" diameter x 10" long 2.54 diameter x 25.40 long (cm)
Weight:	270 pounds 122.5 kg

What can it do?

Throughput Rate:	1 to 10 pounds/hour 0.45 to 4.5 kg/hour
Speed:	30 to 434 RPM Infinitely variable by 0.1 increments
Temperature Range:	32°F to 500°F 1.1°C to 260°C

RK-1 Features & Options

Customizable Paddle Arrangements

- Multiple paddle types allow for control and balancing of shear and mixing forces.

Split Barrel Design

- For easy cleaning and paddle change-out.

Liquid Injection Port

- One 1/4" NPT connection into barrel.
- Bottom thermocouple port can be used as a 2nd liquid injection port.

LCD Touch Control Panel

Power Requirement

- 220V / 1 ph / 60 Hz

Horsepower

- 1.5 HP (1.2 kW)

Heated or Cooled Barrel via:

- 1.5 kW electric band heater.
- Hot oil running through the barrel jacket.
- Cooled by a chiller with cold water running through the barrel jacket.

Two Thermocouples

Lift Table

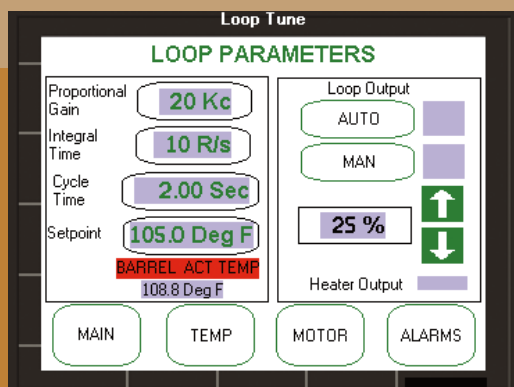
- Lift height ranges from 17" to 39" (43.2 to 99.1 cm)
- Overall dimensions: 40" x 20" (101.6 x 50.8 cm)

Additional Paddles

- Easily swap between paddle arrangements to find the best fit for your product.

All Stainless Steel Construction

- Let us know if you have any material compatibility concerns; we will work with you to find a construction material that matches your needs.

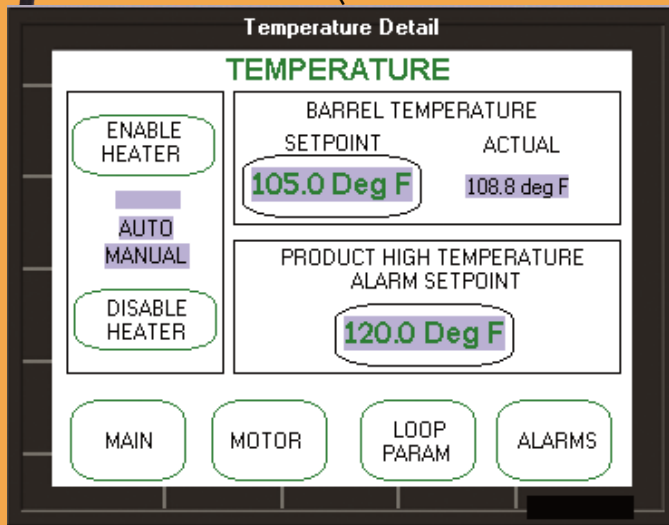


25.77" with feed chute

20.65"

14.75"

45.75"



Benefits

- Completely Enclosed Mixing Chamber
- Fewer Processor Steps
- Short Heat History
- No Batch to Batch Variations
- Shorter Cycle Time
- Lower Energy Consumption
- Reduced Labor
- Reduces Floor Space Needed
- Eases Environmental Concerns

Process Elements that can be done Continuously

Shearing

Homogenization

Reactions

Cooking

Grinding

Low-Pressure Extrusion

Combining of Operations

Encapsulating

Crystallizing

Wetting

Addition of Fillers

Continuous Applications

Chemical

- Activated Carbon
- Adhesives
- Aramid Fiber
- Artificial Wood
- Asphalt
- Batteries (lead sulfate, lead oxide, mercury, potassium hydroxide, ni-cad, lithium-ion, alkaline cells)
- Brake Linings
- Carbon Based Filter Material
- Catalysts
- Caulking & Sealing Compounds
- Cellulose Acetate
- Cement Board/Wall Board
- Ceramics
- Chemical Reactions/Polymerization
- Chemically Enhanced Building Products
- CMC (carboxy methyl cellulose)
- Composites & Nano Composites
- Compounding
- Countertop Materials
- Continuous Low Moisture Granulation
- Drywall Compound
- Encapsulates
- Energetics
- Engineered Fuels
- Fertilizers
- Floor Tile
- Graphite
- Gypsum Board
- Hazardous Waste Remediation

- Inks
- Ion Exchange Resin
- Joint Compounds
- Magnetic Coating Material
- Magnets
- Metallic Soaps
- Micro Crystalline Cellulose
- Molding Compounds
- Molding Clay
- Pastes (chemical and food)
- Pesticides & Herbicides
- Pharmaceutical Products
- Photographic Emulsions
- Pigments & Dye Encapsulation
- Plastic Compounding (PE, PP, nylon, PVC)
- Polymerization Reactions
- Powder Injection Molding
- Powdered Paint
- Radioactive Waste Encapsulation
- Refractories
- Resins
- Rubber Products
- Rubber Compounding
- Sealants
- Silicone
- Soap (hard & soft, cleaners, detergents, biodegradable, non-phosphorus)
- Surfactants
- Toilet Bowl Deodorizers
- Toners

Food

- Alternative Meat Products
- Animal Feed
- Artificial Sweeteners
- Candy & Candy Bars
- Cereal (rice, wheat products)
- Chocolate (conching & conditioning)
- Creams
- Crystallizations
- Doughs (cookies, biscuits, snacks, gluten, crackers, pretzels, doughnuts)
- Flavor Encapsulation
- Food Fillings
- Grain Preconditioning
- Gum & Gum Base
- Malted Milk Balls
- Meat Emulsions
- Milk Powder
- Plant Base Proteins
- Nut Butter
- Nutraceuticals
- Nutrition & Fruit Bars
- Pastas
- Peanut Butter & Fillings
- Pet Foods & Treats
- Pigments
- Plant Based Proteins
- Processed Cheese
- Seasonings
- Snacks
- Spices
- Taffy



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