



KRENDL

#9000

OUR GOAL IS TO MAKE THE HIGHEST QUALITY MACHINES IN THE WORLD.



GRAVIMETRIC FIBER SYSTEM

DESIGNED AND BUILT BY KRENDL MACHINE COMPANY

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CONTROL FEATURES:

- Nema 4 Electrical Panel provides simple and easy to operate control system with full circuit protection for all components. Seal-tite® flexible metal core conduit provides complete wiring protection for all connections.
- Panel enclosure contains AC frequency drive controller and telemecanique starters and contacts for motor protection.
- High capacity blower system with pressure line monitoring provides adjustable amount of air to rotary airlock, effecting maximum fiber dispersal with minimal dust.
- Easily accessible air control and filter cartridge, coupled with pressure relief and check valve protection, affords an easily maintained high endurance system.



MC-3 FIBER DISPENSING SYSTEM:

- Combination Rate/Dosage controller gravimetrically or volumetrically meters fibers into continuous or batching processes. Feed rate is sensed and corrections are made immediately resulting in consistent high accuracy.
- Front panel controls are simple to understand and easy to use. (Full manual back-up is provided)
- Microprocessor based, completely digital system, requires very few set-up and calibration procedures.
- Feed rate, flow alarm, weight totalization, hopper weight, run status, and operator prompts are indicated with a high visibility alpha-numeric display.
- 20 mA current loop and 4-20 mA analog outputs are standard features along with 0 to 10 VDC computer interface. (Printer optional)



OVER 40 YEARS OF QUALITY AND SERVICE.

BUILT-IN ACCESSIBILITY AND SAFETY:

- Staging area allows fiber to uniformly load from main hopper vessel while being conditioned and separated before entering multiple augers below.
- A constant equilibrium is maintained in this area above the auger screws, removing “head pressure” feed rate variations.
- Access covers provide easy entry into staging/screw auger/shredder areas for quick inspection, cleanout, and maintenance.
- Main access cover has kill switch interlock for operator safety.



LARGE CAPACITY BULK LOADING:

- Observation platform allows operator to monitor loading area.
- Large capacity hopper (200 ft³/ 6 m³) provides extra reservoir for most bulk packaged material.
- Fully automatic 150 ft³/ 4.2 m³ loading system with manual override can fill main hopper in less than 60 second cycle time.
- Modular hydraulic system offers easy accessibility and maintenance.
- Twin cylinder flow restrictor/check valve, pre-alarm buzzer, and platform guard-rail provide complete operator safety.



COMPACTABILITY AND EASY OPERATIONAL SETUP:

- Skid mounted machine with load cell lifts and accessories can be quickly and easily retracted and moved for shipping purposes.
- Roll-Tarp provides convenient protection from rain and other elements.
- Safety kill switches allow operator to override and stop equipment.
- Wind guards protect “live” weigh area from outside disturbances.
- Heavy duty structural "C"-Channel construction with 11 ga. hopper is carbon steel, coated with OSHA blue enamel.



#9000 SPECIFICATIONS:

PHYSICAL:

Dimensions: 96" wide x 127" long x 102" high
244 cm. x 322 cm. x 259 cm.

Weight: 10,500 lbs./4763 kg.
(including hydraulic lift)

Hopper Capacity: 200 ft³/ 6 m³
approx. 1200 lbs./546 kg. Cellulose
2400 lbs./1091 kg. Polyester - Polypropylene

Production Rate: 0-5400 lbs./hr. (Cellulose)
0-2450 kg./hr. (@ 6 lbs/ft³)

NOTE: Production Rate varies with product density.

ELECTRICAL:

460V/3-phase 60 hz. 30 amps
575V/3-phase 60 hz. 25 amps (price adder)
380V/3-phase 50 hz. 37 amps (price adder)

Blower: Regenerative

400 c.f.m. - 4 p.s.i. / 10 H.P.
(Optional blower styles provide enhanced performance with higher density products)

Hydraulic Loading System (optional):

twin cylinder - 2 H.P. - 60 second load cycle
Capacity: 150 ft³/ 4.2 m³ - 2000 lb. payload

MC-3 CONTROLLER SPECIFICATIONS:

- Rate Control Mode - system dispenses and maintains a predetermined flow rate of fiber based on a user defined parameter. The system can manually or automatically refill its hopper while maintaining the current flow rate setting.
- Programmable flow rate and no flow alarm. Deviation alarms with both audible and hard contact outputs.
- Dose Mode - system dispenses predetermined doses for hopper / mixer systems at user defined flow rates. The system can automatically or manually refill based on user defined modes.
- Full system controls for manual, semi-automatic, and automatic operation in either rate control or dosing modes.
- NEMA 12 enclosure with front panel digital calibration and configuration.
- Serial output, RS-232 to drive an external printer or computer.
- Analog outputs, 0-10 VDC (also capable 4-20 milliamps) for direct drive control and 0-10 VDC proportional to the flow rate for external plant control.
- Interface to plant computers through analog signals and versatile digital interfaces.

OPTIONAL:

- I/O Process control signals
- Optional 220VAC input power
- Scale remote data display for setup and weight status
- Outputs for printers and remote displays
- Custom applications

LOAD CELL: Strain gauge type single ended shear beam NTEP class III multiple cell.

- Safe overload, 150% full scale
- Rated excitation, 10VDC
- Hysteresis, 0.02% full scale
- Bridge resistance, 350 ohms nominal
- Tension mounting hardware - better alignment, more forgiving in out of level conditions. Mounts offer better reflection of vibration and thermal expansion.
- Self checking mounting system weighs the entire vessel. System capacity of 10,000 lbs./4546 kg.
- NPT connections with seal-tite® flexible metal conduit offers superior water-proofing and mechanical protection of cells and cables.
- Stainless steel, NEMA 4X cell junction box.
- Full scale output, 3.0 mV / V
- Nonlinearity, 0.03% full scale
- Temperature compensation range, 0-150° F
- Element material finish, high-alloy tool steel, nickel plated