

MERRICK MODEL 455 MICRO MILLENNIUM WEIGH FEEDERS

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DESIGNED FOR ACCURACY

Owning a gravimetric weigh belt feeder from MERRICK means your facility will reap the benefits of our commitment to material handling accuracy and reliability. We understand that our clients rely on their weigh belt feeders to deliver continuous results at a desired flow rate in harsh environments, which is why we are so proud of our GRAVIMERIK® Model 455 Micro Millennium weigh belt feeder solutions. Not only has MERRICK been in the weigh feeding industry since 1908, but our company is the inventor of dynamic weighing, so you can be assured that your MERRICK feeders are built to last and perform for many years to come.



Model 455 Micro Millennium

STANDARD RUGGED DESIGN

- Heavy Duty Angle Frame Enclosure
- Cantilevered Frame for Easy Belt Replacement
- Single Idler, Dual Load Cell Suspension
- Tail Pulley Mounted Speed Sensor for Most Accurate Belt Travel Measurement
- Totally Enclosed for Dust Control with Easily Removable Access Panels
- 12" & 18" Belt Widths
- 1 Meter (39.37") Inlet to Discharge Centerline Standard Lengths to 20 Feet
- 6" Diameter Lagged Crowned Head Pulley to Aid in Belt Tracking
- Heavy Duty Pillow Block Head and Tail Pulley Bearings
- 2½" Diameter Carrying Idlers with Sealed for Life Bearings
- Enclosed Telescoping Screw Take-Up on the Feeder Tail Pulley
- Standard Belt Scraper(s)
- Shaft Mounted Speed Reducer with Variable Speed AC or DC Motor
- ±0.25% Totalized Accuracy
- ±0.5% of Set Rate at 2 Sigma

STANDARD FEATURES

Shaft Mounted Speed Reducer

Drive Pulley

Counter-Weighted Head Pulley Scraper

Heavy Duty Angle Frame

Single Idler Suspension

Cantilevered Frame for Easy Belt Replacement

Enclosed Screw Take Up

Pillow Block Bearing

Infeed

Tail Mounted Speed Sensor

Pillow Block Bearing

Model 455 Micro Millennium with Standard Covers Removed

GENETIX PROCESS CONTROLLER

The Genetix® process controller for scales and weigh feeders is a powerful single-board controller for a range of applications: from small single-scale installations to large multi-feeder blending systems. It does not require an operator display to function and can be connected to most modern PLC systems using Devicenet, Controlnet, Profibus, Ethernet, and other industrial interfaces.



OPTIONAL FEATURES

- Infeed Supported From Feeder Frame
- Custom Designed Infeeds
- Self-Cleaning Tail Pulley
- Belt Tracking Switches
- Top Mount Reducer and Motor with Chain Drive
- 1" (25mm) Vanner-Edged Belt
- Belt Temperature Ratings to 400° F (200° C)
- Enclosure Options (Sides, Bottom or Top)

MERRICK MODEL 455 MICRO MILLENNIUM WEIGH FEEDERS

RUGGED AND RELIABLE

HEAD PULLEY DRIVE

- Shaft Mounted Speed Reducer with Inverter Duty AC Motor
- VFD (Variable Frequency) Speed Control Mounted Separately (DC/SCR Motor & Drive Available)

ACCESSORIES

- Feeder Supports
- Infeed Valves, Knife Gate, Rod Gate, Slide Gate Styles Available
- Discharge Hoppers, Chutework
- Fully Integrated Control Systems to Interface with Plant PLC's Networks

FEEDRATE RANGE

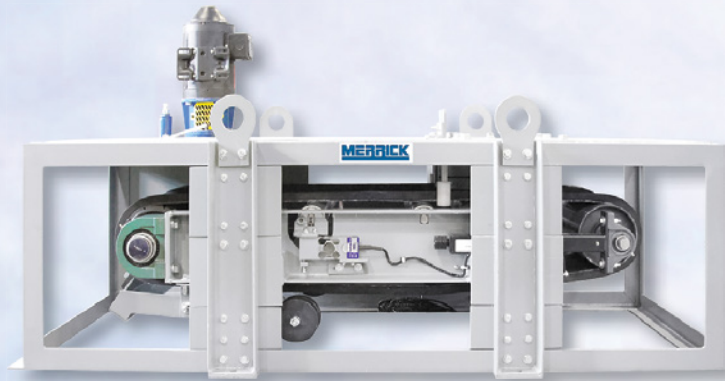
- Based on 100 PCF Material
- 12"- 25 STPH
- 18"- 40 STPH

BELT WIDTHS

- 12" (305mm)
- 18" (457mm)

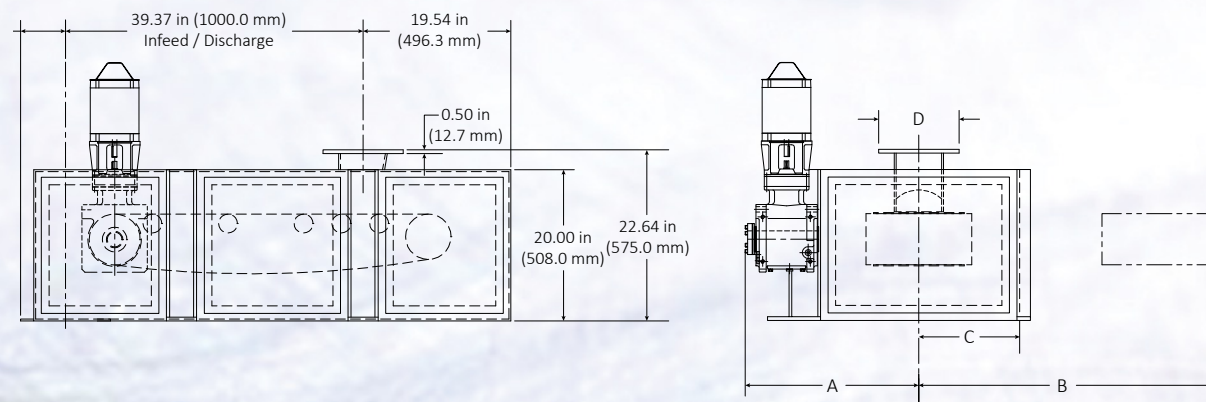
ACCURACY

- Up to $\pm 0.5\%$ of Set Rate at 2 Sigma
- $\pm 0.25\%$ Totalized Accuracy



Model 455 Micro Millennium

DIMENSIONS AND SPECIFICATIONS



BELT WIDTH	A	B	C	D
12 Inches 305 mm	24 Inches 610 mm	39.37 Inches 1000 mm	13 Inches 330.2 mm	6 x 6 Inches 152.4 x 152.4 mm
18 Inches 457 mm	27 Inches 686 mm	47.24 Inches 1200 mm	16 Inches 406.4 mm	10 x 10 Inches 254 x 254 mm

DYNAMIC INNOVATIONS SINCE 1908
WEIGHING, FEEDING, CONTROLS & ENVIRONMENTAL SOLUTIONS

MODEL 455 MICRO MILLENNIUM GRAVIMERIK HEAVY DUTY WEIGH FEEDER



ACCURACY AND RELIABILITY FOR GLOBAL INDUSTRY

FAMILY OF
MERRICK
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