

Mega Milling & Mining Technology

Weigh Belt Feeder Equipment Description (Non-Explosion Proof):

Application Design

Material: Hard Rock Ore

Density: 120 #/Cu. Ft. Various per Application

Prefed: Gravity Fed From Hopper

Rate: 10 TPH Max., 1 TPH Min.

Particle: fines, to 06MM – 1/4”

SYSTEM DESIGN

The feeder will have a variable speed drive and an FC20 feed rate controller.

Item 1.0 Qty (1) GOLD MAXX Single Idler Weigh Belt Feeder, Model GM10-14”-6’, complete with:

- ± 0.50% accuracy at maximum rated capacity, with approved installation, and completed material test
- Open Construction Mild Steel weigh feeder with Standard Powder coat paint
- Full Mild Steel Enclosure
- 6” Fixed Mild Steel Side Skirts
- One (1) Zinc Plated, Self-Storing Calibration Weight with Manual Lifter Arm Assembly
- Optical Encoder Speed Sensor
- Signal Conditioning Board in NEMA 12 Enclosure
- NTEP approved Load Cell(s)
- 1/4 HP, Premium Duty, Inverter Grade, AC Motor With An AC Tech Variable Frequency Drive And Direct Coupled Reducer
- Vulcanized 14” Wide Belt, Endless construction with 1/2” Corrugated Edge
- 10” Diameter Head Pulley with Vulcanized Lagging And Internal Bearings
- 10 Diameter Tail Pulley with Internal Bearings
- 4” CEMA “B” Flat Carry Idlers with Sealed Bearings
- Inlet Spout with manually adjustable, vertical profile plate
- 6’ - 0” length from centerline of inlet to discharge.
- Each Leg will have a lifting lug and leg design “same as” PILOT PLANT
- Custom Discharge Chute

Item 1.1 One (1) FC20 Feed Rate Controller To Include The Following Standard Features:

- Displays Rate, Total, Set Point And Control Position
- User Friendly, Menu Driven Programming
- Non-Volatile Memory, Will Retain Program And All Display Data For Up To Ten (10) Years
- Auto-Zero
- Auto-Span
- Auto-Zero Tracking
- Full Time Self Diagnostics For Ease In Troubleshooting
- Automatic One Step Calibration
- 1/2” And 5/16” LED And 5 X 7 Dot Matrix Displays
- Simulation Mode To Adjust All Outputs Without Running Belt
- Separately Adjustable Damping Of All Outputs
- Outputs Are 4-20 mA, PID Control, Totalizer Pulse, High Frequency Rate, And An RS232 Or RS422/RS485 Serial Port For Computers
- Two (2) Optical Signal Isolators For 4-20 mA Rate And Control Outputs
- One (1) Internal Run Interlock Relay
- Two (2) Programmable Internal Relays; Each Can Be Programmed For Eight (8) Alarms And/Or Remote Functions
- Personnel Lock-Out Program For Any Combination Of Auto-Zero, Auto-Span, Stop Count, Reset And Set Point
- NEMA 12 Enclosure, 13” W X 9” H X 4” D
- 25 Feet Of Cable, Belden 1063A, From Carriage To Processor
- Factory Exchange/Repair Program (Keep Exchange Unit And Pay Only Repair Costs, Not New Costs)
- Five (5) Year Warranty

Application Design:

Complete Collection System

**Gold Maxx 5 ton rated per hour cyclone, custom designed for:
Precious metal milled ores. Dust collector, and blower rated for 2,500 CFM**

- Cyclone Model GM 60-10 GA includes stand and a 10" LP rotary air lock.
- 6 Cartridge dust collector, equipped with inlet transition (that will bolt up at factory) a dwyer control, drums, filter system dust collection, and drum kit.
- Ground mounted fan 2500 CFM – 5 HP – 3 Phase motor. Equipped with belt guards, outlet damper, 1" drain and flanged inlet.
- Ductwork to connect the 1 ton mill to cyclone and the cyclone to the dust collector inlet and the outlet of the dust collector to the ground mounted fan.

Application Design:

Gold Maxx Up to 1 Ton Turbulent Impact Mill

- Includes 40 HP 3 phase 240/460 volt motor
- 40 HP rated VFD (variable frequency drive) Nema 4 Housing
- Hydraulic drive cylinder to open housing for easy blade maintenance
- Includes 3 spare rotor blades

(depending on type of material, feed size, hardness, density, moisture and overall characteristics)

Freight NOT included.

Cost to Miami, FL . Approx \$3,500-\$4,000. Lead time 8-10 weeks.