

Processing minerals and heavy metals, requires the most durable, abrasion and wear resistant material handling components. Precision Machine & Manufacturing is the ONLY manufacturer who builds HEAVY-DUTY Rotary Airlocks and Screw Conveyors specifically for these tough applications

#### **HEAVY-DUTY ROTARY VALVE AIRLOCK**

Industry leading Rotary Valve Airlocks specifically manufactured for the most difficult mineral and heavy metal processing applications.

No other Rotary Airlock in the industry is built as robust and with as much functionality as PMM's Rotary Valve Airlock. It is the "go to" when all others have failed!

#### **HEAVY-DUTY & HIGH-VOLUME AIRLOCK**

Manufactured to perform in the most challenging applications while moving massive amounts of the most abrasive material types.

- Manufactured with a special U.S. sourced, 50 Rockwell, abrasion and wear resistant steel alloy.
- ▶ Perfect for high-volume material handling applications moving fly ash, coal, or limestone.

#### SELF-CLEANING ROTARY VALVE

Eliminate downtime due to airlock clogging issues and install PMM's Heavy Duty Self-Cleaning Rotary Valve Airlock.

- Manufactured to "self clean" sticky materials from the rotor's pockets and keep the material flowing.
- ▶ Just like the popular Rotary Valve Airlock, manufactured with a special through hardened, 500 Brinell steel alloy and surface treated to push the hardness to 60 Rockwell.

#### OFFSET ROTARY VALVE AIRLOCK

Maintain material attributes and eliminate degradation by removing "impact zones" within the airlock. This unique design allows the material to gently fall into the rotor's pockets, which eliminates the rotor shearing action and maintains the materials shape and size.

- ► The perfect airlock when moving fragile and/or delicate materials.
- Totally rebuildable including easy onsite maintenance!
- Extremely durable! Built with 500 Brinell wear parts and surface treated to 60 Rockwell!
- Outlast cast iron rotary valves 3 to 1!!

### **HEAVY-DUTY SCREW CONVEYOR (AUGERS)**

Designed and custom engineered to meet the specific needs of the operational environment.

- Replaces failed augers in high-wear, high-abrasive applications.
- Handles the most difficult materials with ease!
- The last screw conveyor you will ever buy!

#### ALTERNATIVE FUEL ROTARY AIRLOCKS

PMM's Rotary Airlock is the optimum airlock when moving a wide array of alternative fuels, from wood and biomass materials to tires, plastics, and carpet.

- ▶ All Rotary Airlock Feeders are equipped with a special U.S sourced, ultra-sharp, hardened tool steel knife, which shears material into uniform sizes prior to delivery into the boiler.
- A heavy-duty airlock and metering device in one!

CONTACT PMM TODAY!

**541–484–9841** sales@premach.com



#### **HEAVY-DUTY ROTARY VALVE** AIRLOCK

The last rotary airlock you will ever buy! Designed specifically to efficiently move highly abrasive and corrosive materials!

**ALTERNATIVE** 

**FUEL FEEDERS** 

**Equipped with an ultra-sharp** 

ensures only precisely sized

materials are metered into

the operation!

hardened tool steel knife, which

premach.com



- and abrasion resistant rotary valve airlock in the industry.
- moving highly abrasive granules and powders.

#### HEAVY DUTY & HIGH-VOLUME ROTARY AIRLOCK FEEDER

The most durable "big volume" Rotary



- Capable of delivering massive volumes of material.
- Wide range of operationa temperatures.
- ▶ Rebuildable!



- ► Manufactured with a U.S. sourced, abrasion-resistant
- **▶** Rounded pockets to promote material release
- **▶** Easily process low quality coal
- **▶** Eliminate blockages!



- **▶** Perfect for precise metering of materials.
- Extremely durable, U.S. sourced abrasive resistant steel alloy. Through hardened and surface treated pushing the hardness to an industry leading 60 Rockwell
- **▶** Super tight rotor to housing clearances, maximizes airlock functionality!



#### OFFSET ROTARY VALVE AIRLOCK

METALS &

EOUIPMENT

SELF-CLEANING

**ROTARY VALVES** 

When it comes to moving

PMM has the equipment

Hot, abrasive, sticky, and

high-moisture. The more

difficult the better!

the most difficult materials,

that will eliminate downtime.

Eliminate material degradation by removing "impact zones."



## WHY PRECISION?

Made in the USA! **Quality, Durability & Functionality! Strong Warranty!** 

WHEN ONLY THE **BEST WILL DO!** 



- Perfect for organic material & alternative fuels.
- Ultra-sharp hardened tool steel knife shears material with ease!
- Extremely durable.
  - A metering device and an airlock!
  - Rebuildable





- Manufactured to meet the unique and very specific needs of the application!
- tion of abrasion-resistant steel alloys and surface treatments to build a robust and functional
- Will outlast the competition 3-4 times to 1!



### HEAVY-DUTY SCREW CONVEYORS

When all others continue to prematurely fail, it is time to call Precision Pachine & Manufacturing!



Precision Machine & Manufacturing's components are 100% manufactured in the United States of America!

# \$20,000 PER HOUR

This is the estimated average hourly

cost for a mineral processing

plant to be shut down for

one hour. For a single 8-hour

shift, this cost equates to

## \$160,000+

This lack of production and the associated costs is what fuels **Precision Machine & Manufacturing** to build the highest quality material handling components in the industry!

Made in the USA and built with special wearresistant alloys solely intended to provide heavy metal and mineral processing plants with outage to outage reliability.



\$20,000+ per hour is too much to ask anyone to pay for faulty components, so the question isn't "Can you afford Precision Machine & Manufacturing?" it is "Can you afford COSTLY downtime?"

























