

\$12,500+ PER HOUR

This is the estimated average hourly **cost** for a cement plant to be shut down for one hour.

For a single **8-hour shift**, this cost equates to

\$100,000+

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 wear-resistant alloys solely intended to provide cement plants with outage to outage reliability.



\$12,500+ 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?"



MAKING CEMENT

is a fascinating process and preciseness is absolutely necessary regardless of the system in operation!

Precision components will ensure your plant is filling orders and not experiencing costly downtime!



Precision Machine & Manufacturing's components are precisely crafted from raw materials that are made right here in the United States of America!

Quality you can count on!

CONTACT PRECISION TODAY!

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CEMENT PLANT EQUIPMENT



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FEEDERS • VALVES & SCREW CONVEYORS

Making Cement is a fascinating process and preciseness is absolutely necessary regardless of the system in operation!
Choosing the right components will maximize plant productivity!



CEMENT PLANT EQUIPMENT

1.

RAW MATERIAL FEEDERS

Able to process up to 1,000 tons per hour, while keeping the mill at a consistent 250 degrees Fahrenheit. Precision's raw mill feeders are the most robust and functional rotary feeders on the market. **Eliminate unscheduled downtime!**

- ▶ Built for outage-to-outage durability!
- ▶ Minimal maintenance
- ▶ Low false air introduction
- ▶ Reduce Material build-up!
- ▶ TES Qualified

2.

PULVERIZED COAL FEEDERS

Coal and pet coke continues to be a common fuel source. Control of the feed rate to ensure the proper amount of material is being consistently delivered to the kiln or calciner is vital in any successful operation.

- ▶ Precision Machine & Manufacturing offers valves and feeders that have a long history of successful operation for 2-3 years before a rebuild is necessary. Standard "commodity" type feeders struggle to operate in this type of environment for a single year let alone 2-3 years.
- ▶ Keeping the kiln and calciner systems fully charged so the fuel feed system functions properly is the standard with a Precision rotary valve!

3.

DUST COLLECTION VALVES

Everyone is concerned about the environment and no company on the planet is more scrutinized than a fully operational cement plant! The amount of dust and pollutants created by the cement manufacturing process can be quite challenging to manage!

- ▶ Precision Machine & Manufacturing offers dust collection valves that will keep airborne particulates contained and secure, which will ensure the EPA is always happy when they visit your plant.

4.

ALTERNATIVE FUEL FEEDERS

Alternative fuels come in all shapes and sizes! From tires to carpet and wood, having a durable rotary feeder that can handle this range of materials is a must!

- ▶ Precision feeders are equipped with a hardened steel and ultra-durable knife that is able to cut alternative fuels into uniform shapes and sizes for the kiln.
 - Meter the exact amount of material being called out.
 - Ensure the airlock does NOT go positive and send air and material upstream.
 - Easily manages a variety of material types and size.
 - Durable!

5.

SCREW CONVEYORS

Having a screw conveyor that can effectively handle the temperature and abrasiveness of the materials being used in the cement manufacturing process, while also achieving the necessary throughput is not only a requirement it is **THE STANDARD!**

- ▶ Precision builds screw conveyors that move the material other "commodity" type screws just fail to stand up to in comparison.
- ▶ Difficult materials? **NO PROBLEM!**

6.

SELF-CLEANING ROTARY VALVES

Keeping the system operating when high-moisture coal is the fuel source of the day can be extremely challenging. Furthermore, raw coal is generally delivered in varying sizes, which makes it very difficult for most feeders to process.

- ▶ Precision Machine & Manufacturing offers self-cleaning valves, which eliminates material build up caused by high-moisture fuels.
- ▶ A consistently and evenly fed operation will result in lower energy consumption.
- ▶ Eliminate downtime!



RAW MATERIAL FEEDERS

Built to efficiently manage large volumes of raw material, while keeping the mill at a consistent temperature. Precise metering and eliminating false air introduction is a must for any successful operation!

1.

- ▶ Eliminate false air
- ▶ Maintain consistent flow
- ▶ Save energy!
- ▶ 150-1,000 Tons per hour.
- ▶ Low Maintenance
- ▶ High-Temperature



6.

SELF-CLEANING ROTARY VALVES

When it comes to moving the most difficult material types, Precision has the equipment that will eliminate downtime. Hot, abrasive, sticky, high-moisture, the more difficult the material types the better!

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5.

- ▶ Custom applications
- ▶ Precisely engineered
- ▶ Durable & Functional!
- ▶ Abrasion Resistant
- ▶ Rebuildable

SCREW CONVEYORS

When it comes to moving the most difficult material types, Precision is the leader in the industry! Hot, abrasive, sticky, the more difficult the better!

2.

- ▶ High temperature
- ▶ Round rotor pockets
- ▶ Outage to Outage Reliability!
- ▶ Abrasion resistant



PULVERIZED COAL FEEDERS

The most abrasive material requires the most durable rotary feeder available, PERIOD!

3.

- ▶ Maintains consistent air pressure
- ▶ Pneumatic line injectors
- ▶ Precisely meters the material!
- ▶ Modular- Wear item replacement
- ▶ Outage to Outage Reliability
- ▶ Low Maintenance



DUST COLLECTION VALVES

Capture dust and other airborne particulates before they escape into the environment. A successful dust collection system centers around a Precision valve!

4.

- ▶ Perfect for organic material & alternate fuels
- ▶ Stainless-hardened steel knife slices material with ease
- ▶ Extremely durable
- ▶ A metering device and an airlock!
- ▶ Rebuildable



ALTERNATIVE FUEL FEEDERS

Equipped with an ultra-sharp hardened steel knife, which ensures only precisely sized materials are metered into the operation!

CONTACT PRECISION TODAY!

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

