

SOLUTION:

ALTERNATIVE FUEL FEEDERS

Alternative Fuels

Cement production is a cost-per-ton business and a major cost category for every plant is fuel to fire the kiln and calciner. Every plant is economically motivated to consider alternative fuels.

Once a plant commits to alternative fuels, it must have a reliable, always-functional fuel delivery system. Whether that system is pneumatically conveying fuel to the main burner/kiln or gravity feeding fuel into the inline calciner (ILC), the system has to work – no matter the plant conditions, the fuel conditions, or the type of fuel.

Alternative fuels are not uniform or consistent. Fuels vary in BTU content, in moisture content, in particle size, and in other ways and no matter how much the cement plant attempts to exercise control over its incoming fuel via contract specifications or inspections, there will always be deviations.

A reliable, robust rotary feeder is the core piece of equipment in either a pneumatic or gravity-fed fuel handling system.

Adaptable to unprepared or minimally-prepared fuel

Some alternative fuel feeders on the market require that the fuels are uniformly sized, free of any over-size material, and consistent from load to load. Homogenous fuels like these are available but at premium prices. Precision's PMR feeders have no restrictions on fuel type.

Outage-to-outage durability

PMR feeders are an investment in a durable, long-lived unit that can take a lot of abuse, adapt to varying types of fuels, and keep running. PMR feeders combine a helical rotor and a stationary knife to shear off any oversize material in the fuel – rather than jamming or plugging. For fuel handling applications, Precision recommends abrasion-resistant Tri-Braze for the feeder barrel.

Reasonable rebuilding

All Precision rotary feeders can be rebuilt at our factory. A standard rebuild is typically two-thirds the price of a new feeder.

Compatible with many types of fuels

Alternative fuel can be frustrating to source and inconsistently available. Wood wastes from any source – ag, construction, manufacturing – as well as refuse-derived fuels, tire chunks and fluff, asphalt shingles, plastics, and other fuels can be successfully fed with PMR feeders.

The fuel flexibility offered by the Precision PMR alternative fuel feeders allows the plant to capitalize on attractively priced fuels in the spot market or change long-term fuel contracts without concern about whether or not the feeder can handle it.



PRECISION

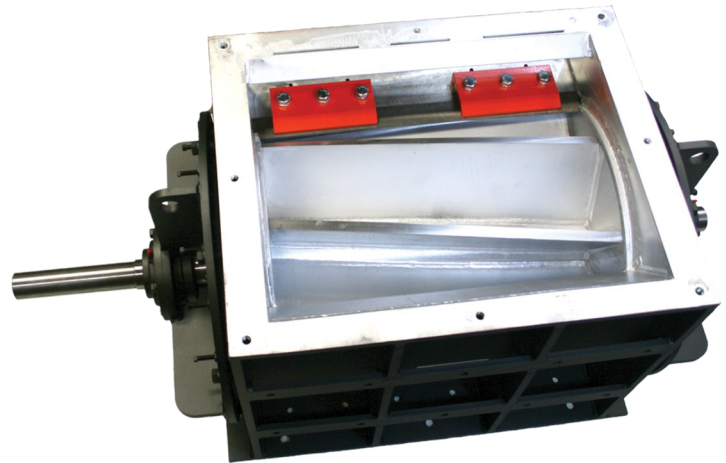
PRECISION MACHINE & MANUFACTURING, INC.

ALTERNATIVE FUEL FEEDERS

PMR ROTARY FEEDERS

BARREL UPGRADE

Optimal Tri-Braze barrel construction
For maximum abrasion- resistance
and long-life.



Feeder	CFR	Wood Fuel TPH	Lightweight Fuel TPH	Approximate Horsepower
25x30	6.17	13	8	3.0 to 7.5
30x30	8.45	18	11	3.0 to 10.0
30x35	10.12	22	14	5.0 to 10.0
30x40	11.46	25	15	5.0 to 10.0
30x45	12.98	28	18	10.0 to 15.0