



A McLanahan
Company

Pug Mill Mixers



Eagle Iron Works offers a range of rugged, high-capacity continuous mixers for applications in many industries. They appear in cold-mix asphalt trains and hot-mix asphalt plants. They are used to prepare stabilized base materials for roads and highways. Eagle's mixers may be used to mix reagents with contaminated earth in soil remediation projects. With small modifications, they even appear in power generation plants to pug neutralizing agents into flue gas desulfurization by-products.

Eagle's Pug Mill Mixers have a sturdy box construction. They feature a rectangular feed inlet with optional hopper on top and a rectangular bottom discharge opening at the opposite end. Hinged inspection ports on the top of the machine open to expose the expanded metal personnel safety covers underneath.

Spray bars and a direct reading flow meter make it easy to control the product's moisture content. The plumbing can be modified to accommodate bituminous emulsions or other viscous fluids.

The counter-rotating twin shafts have intermeshing paddles cast of abrasion resistant Ni-Hard, a chromium-nickel iron alloy. The shafts are synchronized and supported at one end by a single-input, double-output speed reducer of Eagle Iron Works' design. The shafts are supported at the other end by flange mounted, grease lubricated roller bearings.



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Pug Mill Mixers

Eagle Pug Mill Mixer Features



Eagle Gear Reducer

- Designed & built at Eagle facilities
- Heavy-duty design with heat-treated helical gears
- 100% of the shaft's thrust load carried by the output shafts
- Oil bath lubrication for maintenance-free operation
- Drive guards standard equipment

Conveyor Shafts

- Intermeshing shafts provide thorough mixing of multiple materials
- Feature high grade, one piece, thick walled steel tubing
- Paddle mounting spuds and flanged ends submerged arc welded



Mixing Paddles

- Replaceable Ni-Hard paddles, 600 Brinell hardness
- Feature corrugated face for improved mixing capabilities
- Three bolt fastening system provides solid connection to mounting spuds
- Reversible paddles to retard material flow for increased mixing action

Mixer Tub

- Fabricated with thick gauge steel
- Hinged Safety Covers
- Rectangular feed hopper
- Spherical-roller rear grease bearings
- Flow meter and spray bars for product moisture control



Optional Equipment

- Curved close-clearance liners for processing binding materials
- Modular support structures
- Surge Bins with hydraulically-operated clam gate
- Electrical control systems
- Pillow Block Rear Bearings

Pug Mill Capacities

Pug Mill Mixer Size	Capacity T.P.H.	Max. Mat'l Size	Elec. Motor H.P.	Shaft R.P.M.	Machine Wt. (lb.)
27" Dia. x 8' 6"	200 to 350	2 1/2"	40	80	6,200
36" Dia. x 8' 6"	350 to 750	2 1/2"	75	60	10,600
44" Dia. x 12' 0"	600 to 1200	2 1/2"	150	50	19,700

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