

PUG MILL MIXERS

EIW Pug Mill Mixers, sometimes known as Stabilized Base Mixers, provide continuous, high-capacity mixing of two or more materials.

Typical applications include preparing stabilized road base, blending cold-mix and hot-mix asphalt, incorporating reagents into contaminated soil, and combining fly ash with flue gas desulfurization sludge.

Solid material enters through the feed opening and is mixed by angled paddles mounted on counter-rotating twin shafts. The intermeshing paddles lift and fold the material inward while advancing it toward the discharge. This action distributes aggregate, fines and additives throughout the mixture.

Each feed stream must enter at a controlled rate to maintain the required blend proportions. Water can be metered through spray bars near the feed end to achieve the moisture content needed for compaction. The plumbing can also accommodate bituminous emulsions, liquid binders and other viscous additives.

Selected paddles can be reversed to slow material movement and increase mixing time. This allows additional blending when combining materials with different moisture contents, although it reduces throughput and increases power requirements. Pug Mill Mixers do not reduce particle size, so oversize material should be removed before mixing.



Design Features

Heat-treated helical reducer gears	Output shafts carry 100% of shaft thrust
Oil-bath lubrication with standard drive guards	One-piece, thick-walled steel shaft tubing
Submerged arc-welded spuds and flanged ends	Replaceable Eagle Armor paddles
600 Brinell paddle hardness	Corrugated paddle faces improve mixing
Three-bolt paddle fastening system	Thick-gauge steel tub with hinged safety covers

Optional Features

Curved close-clearance liners for Portland cement or emulsified asphalt

Surge bins with hydraulically operated clam gates

Pillow-block rear bearings

EAGLE IRON WORKS

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Size (Diameter x Length)	Maximum Capacity	Maximum Feed Size	Shaft Speed	Electric Motor	Machine Weight
27" x 8' 6" (685 mm x 2.5 m)	200 to 350 STPH (181.4 to 317.5 MTPH)	2.5" (63 mm)	80 RPM	40 HP (30 kW)	6,200 lb (2,812.3 kg)
36" x 8' 6" (914 mm x 2.5 m)	350 to 750 STPH (317.5 to 680.4 MTPH)	2.5" (63 mm)	60 RPM	75 HP (56 kW)	10,600 lb (4,808.1 kg)
44" x 12' (1,117 mm x 3.6 m)	600 to 1,200 STPH (544.3 to 1,088.6 MTPH)	2.5" (63 mm)	50 RPM	150 HP (112 kW)	19,700 lb (8,935.8 kg)



eagleironworks.com

129 East Holcomb Avenue, Des Moines, Iowa 50313 USA
Tel: +1 (515) 243 1123 | Email: info@eagleironworks.com

