



UNIVERSAL WOBBLER FEEDER

McLanahan's Universal Wobblers Feeders provide two functions - feeding oversized material at a controlled rate and scalping out fines from feed material. McLanahan offers multiple Wobbler Feeder models, each with different standard widths and number of bar combinations and pitches. Each Wobbler Feeder is custom designed to meet a wide range application requirements while scalping material from 1/2" to 7-1/2" (12.7mm to 190.5mm) lump size and tonnages up to 2,500 TPH (2,268 MTPH). Universal Wobbler Feeders are being used in a variety of mining applications such as precious metals, iron ore, copper, nickel, and bauxite, as well as aggregate applications such as processing coral limestone, weathered overburden, deleterious seams in sedimentary deposits, and a variety of clays.

How It Works

After material is fed onto a Universal Wobbler Feeder, it is scalped by elongated, oval elliptical bars that are timed with a roller chain drive and timed bar sprockets. Each elliptical bar is timed 90 degrees apart with one bar elongated vertically, while the next bar is rotated with the elongation in a horizontal position. All bars rotate at the same rate of speed. This motion moves the loaded material along the bars until it is discharged off the Wobbler. Bars maintain a constant gap between themselves, which allows fines to pass through the bar gaps, leaving the undersized scalped material below. Universal Wobbler Feeders operate at a slow RPM with zero vibration and low dust emission. They are available with a fixed bar spacing or an adjustable bar spacing.

Efficient Feeding

Wobblers are self-cleaning. They are capable of handling wet, sticky materials and are very good with clays. Material can be dumped directly onto the Wobbler bed or fed with an Apron Feeder. When processing higher capacities and larger material lump sizes, McLanahan recommends using the Apron Feeder and Wobbler Feeder combination to reduce impacting and increase the scalping area. Wobbler Feeders can increase your system's output by scalping out fines and letting your crusher handle only the material that needs to be crushed.

Lubrication System

For the Universal Wobbler Feeder drive assembly, three hold-down bars keep chain riding properly on the sprocket. A forced oil lubrication system applies oil in a continuous circulation to the bearings and the hydraulic chain take-up, keeping your feeder running smoothly. The sprockets on each wobbler bar are heat treated. The sprockets and chains are enclosed and continuously lubricated in an oil bath.