

Wobbler feeders





Discharge of run-of-mine material from apron feeder to wobbler feeder



Typical truck dump station feeding an apron and wobbler feeder

Feeds and scalps in one operation

Metso's wobbler feeders are engineered with self cleaning, non-clogging elliptical bars that make short work of sticky material without reducing productivity levels.

The unique action of the Metso wobbler feeder can actually boost material production from 50% to 100%. This is accomplished, in one operation, by scalping out fines and feeding only oversize to your crusher or impactor. Maintenance is also reduced because abrasive, choking fines are bypassed. Wobblers are self-cleaning and resist clogging in wet, sticky materials. Metso wobbler feeders operate with low horsepower and headroom requirements, and without vibration, noise or transmitted stresses, making them ideal for both stationary and portable applications.

The durable wobbler construction is designed to work at top efficiency under heaped loads. The secret behind the Metso wobbler feeder's ability to handle wet, sticky or dry oversize material is in the original "Wobbler Feeder Principle". The positive action of the rotating elliptical bars causes material to tumble forward assuring separation of fines and a uniform feed rate. Metso offers a wide choice of capacities to meet your specific duty needs.



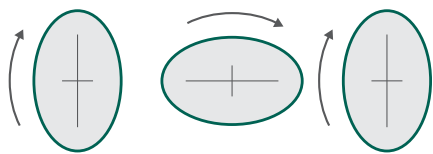
Heavy duty 12 1/2 inch (317 mm) pitch wobbler feeder



The Original “Wobbler Feeder Principle”

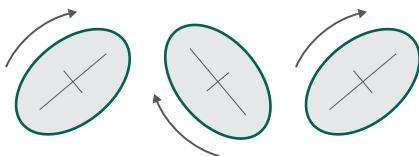
1. Mine or quarry-run material dumped directly on the elliptical bars.

Elliptical bars of steel form the bottom of a receiving hopper and are set in alternate vertical and horizontal positions. Mine or quarry-run material is dumped directly on the wobbler bed from trucks, draglines or loaders. In heavy duty, high capacity applications, the wobbler is often fed from a heavy duty apron feeder. Gravity causes some fines to pass immediately and forces the load into positive contact with the wobbler bars.



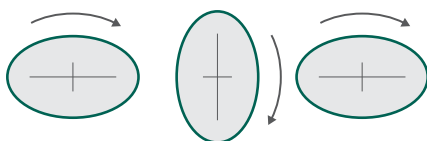
2. As bars turn, fines, mud, or dirt drop through the openings.

Wobbler bars rotate in the same direction, all at the same speed. Spacing remains constant throughout the rotation. As one bar turns down, the succeeding one turns up, imparting a rocking, tumbling motion to the load. Oversize is “wobbled,” working loose more fines which sift through the wobbler bed directly onto the conveyor belt.



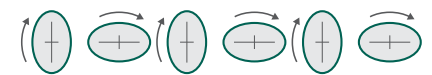
3. Oversize moves forward in a rocking roller motion.

Pressure of the load and “wobbler” action moves the oversize forward, thoroughly removing the fines. Every wobbler bar is a self-cleaning separator and will take out wet, sticky, or clay materials without clogging. Oversize is delivered free of dirt and clay. The capacity of the crusher or impactor is thereby greatly increased.

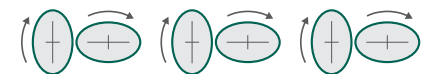


4. Standard and combination style options available to meet your needs.

The wobbler should be choke loaded for most efficient operation because the greater the burden on the wobbler bed, the more positive its action. Gravity removes fines, forces the load into contact with the wobbler bars, but it is the crowding, pushing action of the load itself that keeps the material moving. Depending on your specific duty needs, both standard and combination wobbler styles are available.



Standard Style



Combination Style



Expect results

It is our promise
to our customers and
the essence of our strategy.

It is the attitude
we share globally;
our business is to deliver
results to our customers,
to help them reach
their goals.

