

OSBORN

Engineered Products SA (Pty) Limited
Shaping Materials Handling

An Astec Company

Osborn Belt Feeder



Belt feeders are similar in construction to belt conveyors and consist of endless belts operating over supporting idlers between head and foot pulley terminals.

Conveyor belts with a heavy rubber cover on the carrying side are used to carry the material. Closely spaced flat belt idlers provide the necessary support for the belt and material. Skirt plates extend the full length of the feeder to confine the material and provide necessary depth for desired capacity or lump size.

Self-contained, sturdy steel frames support and align the head and foot shafts, intermediate idlers, and the continuous skirt plates. Adjustable rubber strips along the lower edge of the skirt plates reduce belt clearance and possible leakage.

Adjustable regulating gates are normally furnished with the skirt plates. Belt wipers can be furnished to meet specific conditions.

Belt feeders feed uniformly at all times and will handle practically any bulk material which is not too large, too hot or will not adhere unduly to the belt. They can be used under bins, track hoppers and other types of containers.

For lump sizes and capacities larger than listed, belt feeders can be furnished to meet specific requirements. For such conditions, feed chutes are designed to avoid severe impact and prevent damage to the belt by lumps jamming as they emerge from the chute.



Capacity

Modern drive systems are cost effective and extremely versatile. Capacities are largely variable.

It is not uncommon to have a unit being able to deliver as little as 1000 tons per hour and at the touch of a button increase this to 6000 tons per hour, with an infinitely variable range.

Identical units can further be differentiated by providing mechanical gates / flow restrictor thereby further enhancing the large capacity / product envelope, yet retaining the simplicity in maintenance and spares holding.

Application

The flexibility in design has allowed Osborn belt feeders to be selected worldwide. Products as diverse as copper ore, coal and re-cycled aluminium shreds are being successfully handled from the far reaches of South America, to our local industry.

Features

- Low cost drive system as compared to other heavy-duty feeders.
- Little maintenance required
- Low noise
- Vast capacity / material type envelope
- Accurate feed control
- Cost effective

This coupled with Osborn's ability to manufacture, test, install and commission your feeders makes the Osborn belt feeders an ideal solution to your controlled feed requirements.

Osborn Belt Feeders

Osborn Belt feeders are locally designed and constructed to meet very specific applications. Each unit is sized and engineered to provide optimal draw-out and feed characteristics.

Osborn. Designers and manufacturers of bulk materials handling and minerals processing plant and equipment.

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