

# Apron feeder



Robust design,  
improved  
uptime

## Material handling solutions from Metso

With more mines and processing plants running round the clock, operators are opting for equipment that is more reliable and requires less maintenance. Metso's vast assortment of material handling solutions are designed to suit your specific requirements with higher capacities, fewer components and lower overall costs.

100+ years of legacy offering comprehensive material handling solutions

## Improved uptime with efficient material handling solutions

Metso offers widest range of loading, unloading, storage and material handling equipment in the marketplace. Our solutions are designed to handle the heaviest loads with minimal maintenance leading to improved uptime. Metso has the material handling technology that is preferred by many minerals processing applications including gold, copper, bauxite and other bulk materials handling industries such as coal mines, power plants, rock quarries and cement.

State-of-the-art equipment driven by performance and innovation

### Designed to suit the most important applications

#### Feeding

Metso's robust and high capacity feeding equipment offers dependability for heavy-duty operations, resulting in reduced downtime and lower overall cost.

#### Loading & unloading

Metso's advanced and efficient equipment simplifies and speeds up the loading and unloading process for bulk material handling.

## Winning combination of ruggedness and dependability

Metso builds apron feeders that are the global standard in quality, durability, and reliability. The rugged design remains the preferred choice of material handling and processing industries around the world.

 Heavy duty, robust design

 High reliability

 Lower OPEX

 Improved profitability

 Increased uptime

 Ease of maintenance

 Improved safety



A century  
of real world  
experience

## Apron feeders

### Groundbreaking excellence in design

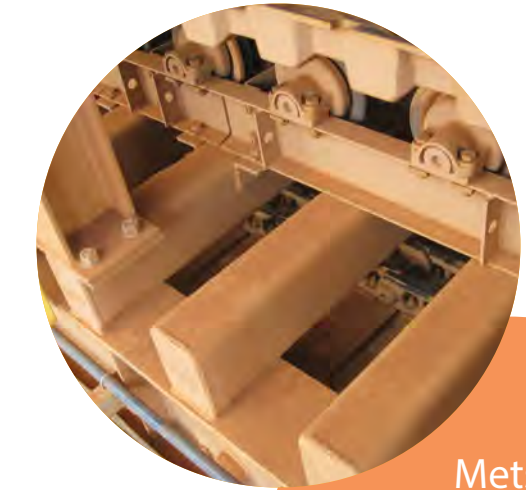
Metso's heavy duty and robust apron feeders are engineered and built with an intense commitment to quality and attention to detail, providing maximum uptime and many years of service life. Ideally suited for feeding large, lumpy, abrasive and heavy materials during wet, sticky or frozen operations, Metso apron feeders work well across a wide variety of applications.

#### "Tractor chain" style feeders – the industry's preferred design

Tractor chain style feeders are the preferred design and set the standard for an almost maintenance free feeder. This style of apron feeders have dominated the market in industries where users require a feeder that can extract materials of varying characteristics.

The Metso apron feeder utilizes tractor-type undercarriage chain, rollers and tall wheels that are also used on bulldozers and excavators. All crawler tractor components are 'sealed for life lubricated' and thus do not require regular lubrication. This provides the feeder end users with many years of reliable, trouble-free operation.

8 different models of varying size, tonnage and drive configurations to meet specific needs.



Metso  
introduced the first  
crawler tractor type  
apron feeder

#### Key industries:

- Cement
- Copper
- Gold
- Nickel
- Silver
- Kimberlite
- Bauxite
- Iron-ore
- Coal
- Limestone
- Potash

# Why choose Metso Apron feeders?

Perfect choice for rugged design and features

Nearly 100% maintenance free, sealed for life lubricated components

## Robust design

- Heavy duty, robust design to handle heavy shock loads
- Rugged welded construction frame to provide rigid support for intense loading conditions
- Deep profile, cast manganese pans for high impact loading

## Highest reliability

- 30 degree split bearing housing with taconite seals
- Spline connection for higher load carrying capacity
- Crawler track type chain with hardened links, pins and bushings

## Safe operation

- Complete safety guards along with the set of Full guards, tail guards, zero speed switch, pull chord switch etc are provided as standard.

## Ease of maintenance

- Easily replaceable lifetime lubricated track components for long wear & Maintenance free operation.
- Anti-friction shaft bearings
- Readily available spare parts and service
- Shaft-less tail traction wheel assembly

# Application overview



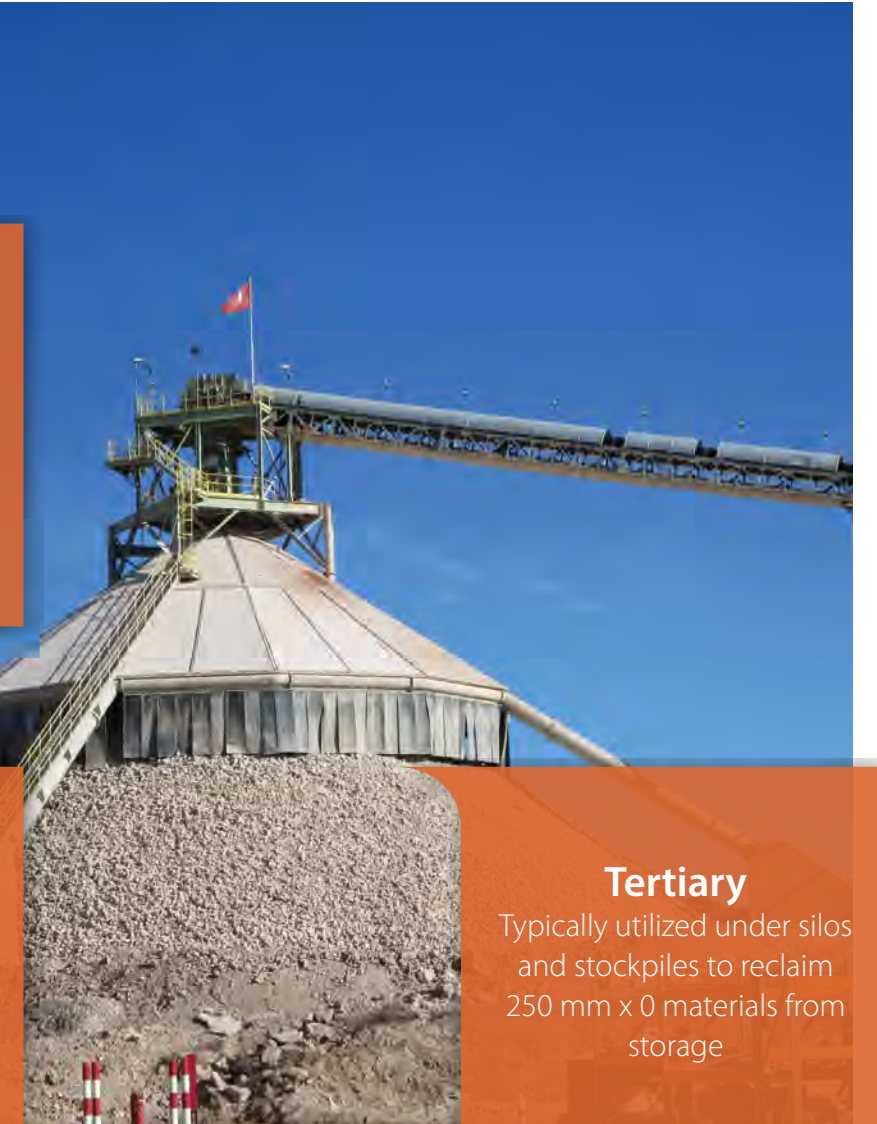
## Primary

Used to control the feed of +1500 mm x 0 run of mine materials to primary crushers or dump station



## Secondary

Used under crushers, hoppers, and bins to act as a buffer to downstream equipment and control surge of 300 mm x 0 material



## Tertiary

Typically utilized under silos and stockpiles to reclaim 250 mm x 0 materials from storage



**Delivering the best results**  
Metso's high quality apron feeder brings down operating & maintenance costs at a large cement plant

**Challenge:**  
The inefficient feeders installed by a general contractor led to routine clogging, skyrocketing production costs and costly downtime. The rotary bin discharger and belt feeders could not reach current feed rates of raw material, and wasn't meeting company's production goals

**Solution:**  
The faulty rotary bin discharger and belt feeders were replaced with Metso's reliable & cost-effective, apron feeder, designed to withdraw 500 tons of moist raw materials per hour with 24x7 operation

**Result:**  
Metso's apron feeder exceeded customer expectations by lowering costs, reducing downtime, improving productivity and eliminating dreaded clogging, providing faster removal of raw materials from inside the bin



## Built tough, repaired and refurbished to excel

As your OEM expert, Metso offers the right support, service and top quality equipment and components. Through our heritage trademarks, we have over 100 years of equipment experience. Metso is the sole owner of the original drawings and product specifications to previously sold OEM brands such as Stephens Adamson, NICO and Svedala.



More than a century of experience and thousands of feeders in operation worldwide makes Metso the dependable choice



### Metso at your service, assists you with:

- Deep equipment knowledge built on machine experience, operational best practices, experience from hundreds of installations and configurations
- Shared objectives – Responsibility for quality and support as agreed
- Cost clarity for business planning and fast payback
- A network of experts, the correct tools and parts with exact specifications

## More than a century of customer collaboration

In addition to parts and refurbishments for your apron feeders, Metso also offers the following services that help you get the most out of your machine.

### Life Cycle Services

Life Cycle Services (LCS) take the entire range of Metso services and conveniently bundles them into customizable, easily manageable packages, ranging from the basics to more complete solutions, depending on the scale of your needs. Packages are equipped to cover single-event equipment shutdowns or span multiple years, measured against strict KPIs.

➤ [metso.com/services/life-cycle-services-for-mining](https://metso.com/services/life-cycle-services-for-mining)

### Field services

Metso offers a comprehensive set of field services to help meet your maintenance, repair, installation and refurbishment needs. Each service is fully customizable to your exact requirements. Our highly specialized services cover all Metso and 3rd party apron feeders.

➤ [metso.com/services/field-services](https://metso.com/services/field-services)

### Inspections and equipment audits

Regular inspections help prevent unplanned mechanical and electrical failures from having a direct effect on your apron feeder's availability and productivity. Metso also offers other services that help you get the most out of your machines.

- Certified global service team
- Expert assessment and recommendations
- Minimized downtime

➤ [metso.com/services/field-services/diagnostic-services2](https://metso.com/services/field-services/diagnostic-services2)

### Repair and maintenance services

Metso's service experts provide regular and corrective maintenance services, as well as preventive maintenance options. Repair services are available both on-site and at our global repair centers, depending upon the scope of work required. Our repair facility network offers an extensive range of services stretching from straightforward parts replacement to complete equipment reconditioning.

- Global network of service centers
- Skilled and certified technicians
- Cutting-edge technology and tools
- Safe and consistent service standards

➤ [metso.com/services/field-services/repairs-and-refurbishment](https://metso.com/services/field-services/repairs-and-refurbishment)

### Training

Metso offers training programs based on expert knowledge of equipment and maintenance procedures. Training programs include online e-training, hands-on modules, specialized courses on apron feeder, along with safety and maintenance training in accordance with global best practices.

- Improved employee motivation
- Full utilization of equipment features
- Maximized productivity
- Safer operation

## The Metso Way -

Making the big difference to our customers

Everything we do is based on deep industry knowledge and expertise that makes the big difference to our customers. Decades of close customer collaboration and adaptation to our customers' ever-changing needs have transformed us into a knowledge company.

Through our knowledge and experience, we work with our customers to create solutions that enable them to attain their objectives. We call this The Metso Way, which focuses on creating value to our customers. The Metso Way is built upon knowledge, people and solutions.

# The Metso Way

**MAKING THE BIG DIFFERENCE**

The message that covers everything we do



### Knowledge

We have deep knowledge about our customers' business environment, processes and challenges



### People

Our committed and highly competent people make the difference to our customers



### Solutions

We create the technology and services required to meet our customer needs

