

# MEKA

## MAF SERIES

# APRON FEEDERS

## BUILT FOR LASTING PERFORMANCE

MEKA offers a complete range of standard and heavy duty apron feeders suited for the most arduous conditions encountered in the Mining and Quarrying industries. When the feed material is wet, sticky or clay like, and where other feeding equipment can not handle it, MEKA Apron Feeders work well across a wide variety of applications.

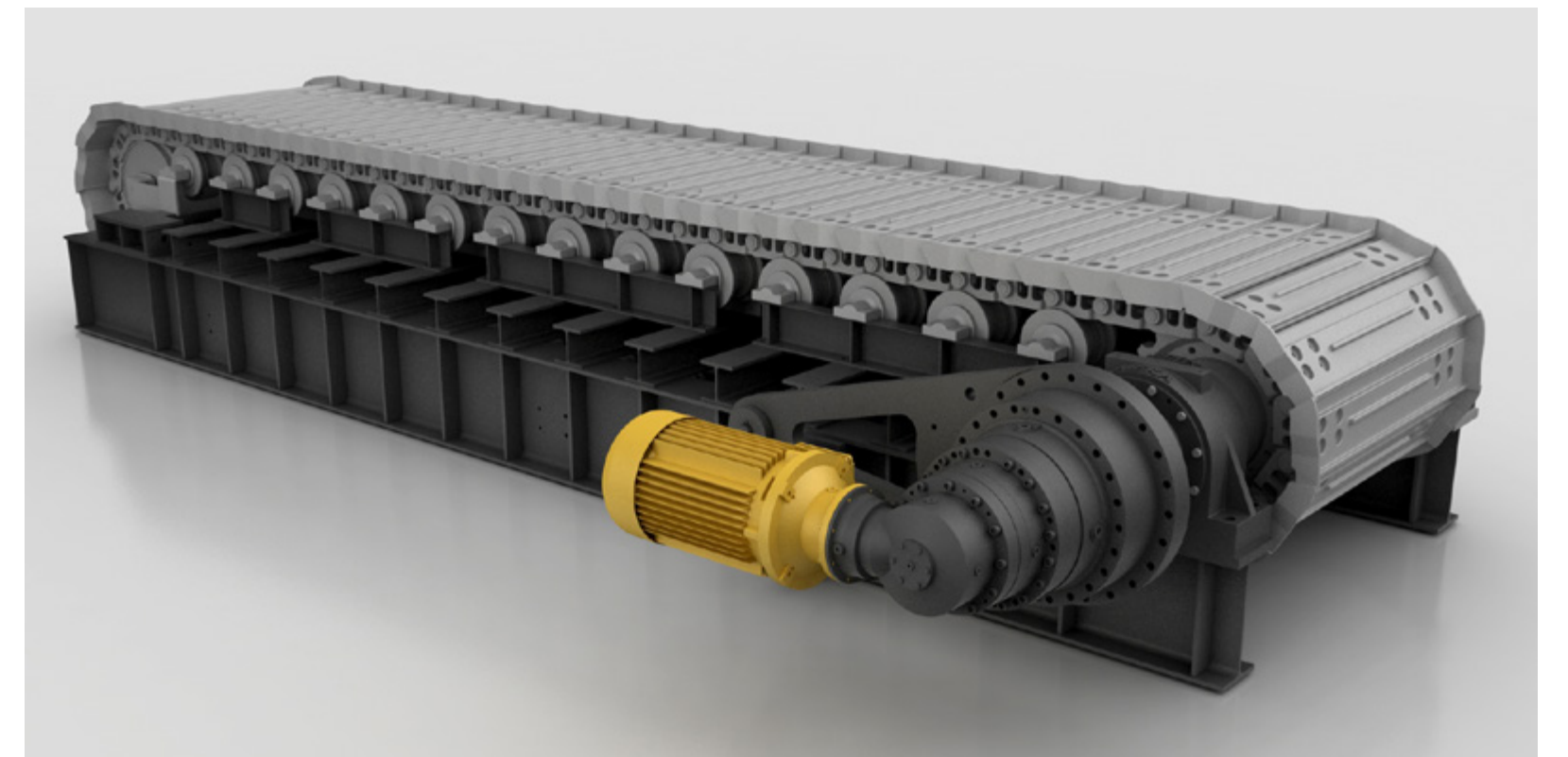
[www.mekaglobal.com](http://www.mekaglobal.com)



MEKA Apron Feeders provide reliable means of controlling the feed rate to prevent surge loads to the Primary Crusher or other plant equipment. An Apron Feeder is run at very low speeds and at a controlled feed rate as it absorbs the impact loads of the material falling from a dump truck or a front-end loader and is ideal for withdrawing material from under a stockpile or from under a Primary Crusher. Apron Feeders are of rugged, heavy duty construction and designed to handle large feed sizes and where no fines removal is required or where fines are removed by a separate Grizzly Scalper.



MEKA'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. Because of their durable, long-life components, our apron feeders are low maintenance even under severe conditions.



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## PRODUCT FEATURES



## FRAME

Rugged welded construction frame to provide rigid support for intense loading conditions. Full length beams manufactured from rolled steel joists form the top and bottom members of this one piece unit. Crossmembers tie the framework together for maximum strength. Bolted onto these crossmembers are the universal beams which carry the impact rails and the carrier rolls. For ease of removing the carrier rolls, the outside carrier roll channels are sectionalized and bolted to the cross beams.

## CHAIN

Crawler tractor type track chains , sealed and lifetime lubricated , are used on all MEKA Apron Feeders . The pins and bushes are all made from heat treated alloy steel and hardened on the wearing surfaces. The chain links are drop forged for increased carrying capacity and strength. The chains can be adjusted by means of a threaded screwed take-up arrangement. Hydraulic ram adjustment is available as an option.

## INSTALLATION

MEKA Apron Feeders are installed in horizontal as well as in inclined applications. Due to the special design of the aprons an inclination range up to 15° can be realized. In addition the bed height of the conveyed material stays constant ensuring an equal material flow to the further process. The high inclination also allows to built compact installations and to reduce the length of the Apron Feeder keeping the investment costs low.

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## CARRYING ROLLERS

The carrying rollers are standard tractor type featuring a hardened and ground shaft fitted with a centre thrust shoulder and hardened roller. The sleeve bearings on the carrying roller takes high impact loads and, with the duo-clone seals providing lifetime lubrication an extended wear life can be assured. Closely spaced along the length of the Feeder, smooth travel of deck during operation is maintained.

## HEAD DRIVE SHAFT

This heavy duty shaft is machined from high grade hot rolled steel.

## DRIVE SPROCKETS

The sprockets are of the bolt on segmental type made from wear resisting alloy steel. They are designed with an odd number of teeth which increases the life of the sprocket because contact with the teeth is only completed after two revolutions. The sprockets are bolted onto keyed on hubs.

## TAIL TRACTION WHEELS

Cast steel traction wheels are lighter duty as they act purely as a directional guide to centralise the track. Long service life can be expected as there is minimal load carried on the traction wheels.

## BEARINGS

Anti-friction spherical roller bearings are fitted to the head and tail shafts and housed in heavy duty plummer blocks. Bearings are grease lubricated and a grease reservoir is included in the design of the bearing housings and end caps. The Apron Feeder has a remote mounted electrically operated automatic greasing system as standard.

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## PANS

Deep profile, cast manganese pans for high impact loading are fitted as standard and reinforced with longitudinal packers which run in close proximity to the impact rails thus preventing excessive loads being taken by the carrying rollers. All pan sets are individually machined to ensure the optimum overlap of each pan is obtained to minimise leakage. The pans are bolted to the track chain using high tensile grade bolts.

## RETURN ROLLERS

The return rollers on the Apron Feeder are steel rollers with bearing sleeves to support the deck on its return. The rollers are mounted on a stub shaft that is fabricated onto a plate and bolted to the lower joist, providing easy maintenance, replacement of parts and lubrication..

## IMPACT RAILS

These full length heavy duty steel rails are fitted to the frame to prevent permanent distortion of the pans under severe impact loading. Ample clearance is provided to ensure that the pans do not drag on the rail.

## DRIBBLE CONVEYOR

As an optional extra, the MEKA Apron Feeders can incorporate a Dribble Conveyor which is located under the feeder to catch the small pieces, fines and lumps of material that became trapped on the feed side of the apron pans and dribble out on the return side. This feature eliminates manual clean up and saves on man hours.

## SAFETY

Complete safety guards along with the set of full guards, tail guards are provided as standard. Zero speed switch, pull chord switch and other components are provided as optional.

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## TECHNICAL SPECIFICATIONS



		<b>MAF 1245</b>	<b>MAF 1260</b>	<b>MAF 1290</b>	<b>MAF 1545</b>	<b>MAF 1560</b>	<b>MAF 1580</b>
<b>W x L</b>	mm	1200x4500	1200x6000	1200x9000	1500x4500	1500x6000	1500x8000
	inchxfoot	48x15	48x20	48x30	60x15	60x20	60x26
<b>Capacity / Chain Speed</b> <b>5,4m/min (17.7 fpm)</b>	mtph	335	335	335	415	415	415
	stph	370	370	370	460	460	460
<b>Capacity / Chain Speed</b> <b>8m/min (26,25 fpm)</b>	mtph	500	500	500	620	620	620
	stph	550	550	550	680	680	680
<b>Capacity / Chain Speed</b> <b>11m/min (36 fpm)</b>	mtph	670	670	670	830	830	830
	stph	740	740	740	910	910	910

>> *At specified inclination and 1.6 t/m<sup>3</sup>. Capacities depend not only on feeder size but also on feeder inclination, feed gradation, etc.  
Feeders can be supplied in lengths to suit customers' requirements.*