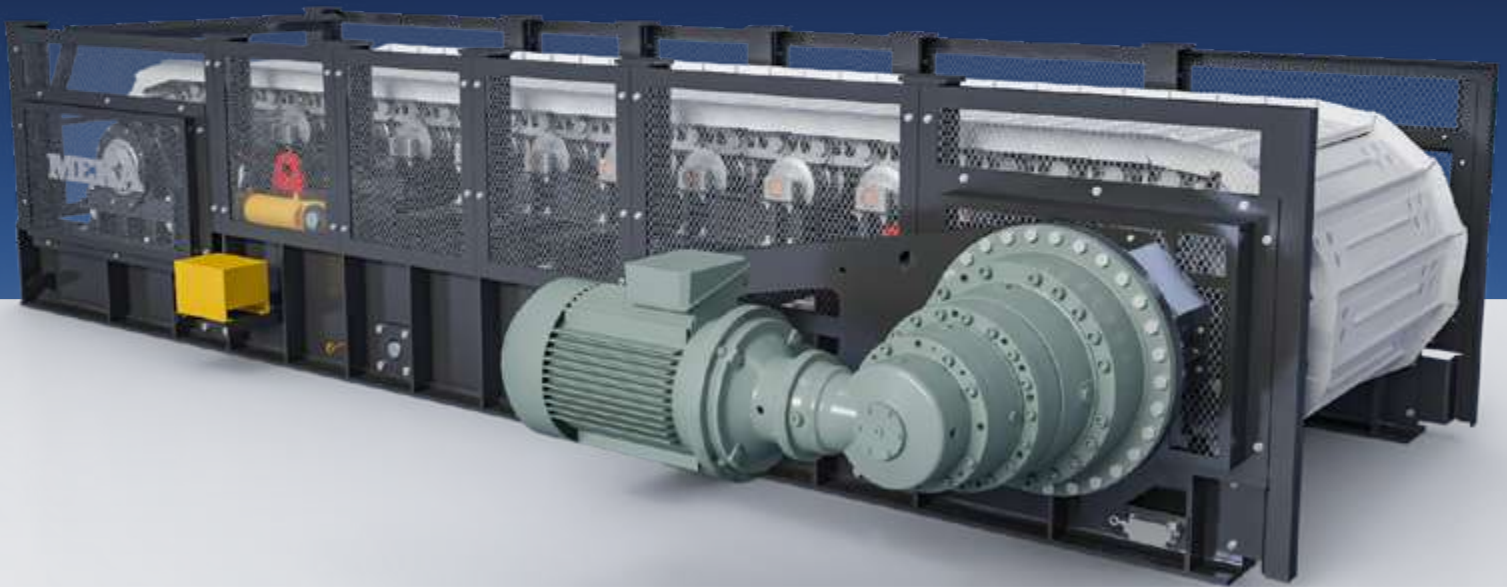


MAF SERIES

APRON FEEDERS



FOR THE TOUGHEST WORKING CONDITIONS

› DURABLE › RELIABLE › EFFICIENT

MEKA
www.mekaglobal.com

UNPARALLELED PERFORMANCE IN FEEDING CHALLENGING MATERIALS

MEKA Apron Feeders are built to operate in heavy-duty conditions and are indispensable when the material to be fed is moist, sticky or contains clay.

MEKA Apron Feeders are designed for demanding material handling operations in mining, ore, coal and aggregate production and offer a solution beyond your expectations with a heavy-duty chassis, drive unit, track and chain system to ensure an extremely long service life.



GENERAL APPLICATION AREAS

■ In open-cast and underground mining above and below ground material transportation



■ In operations such as truck and ship loading/unloading as a mobile, compact and stationary system component

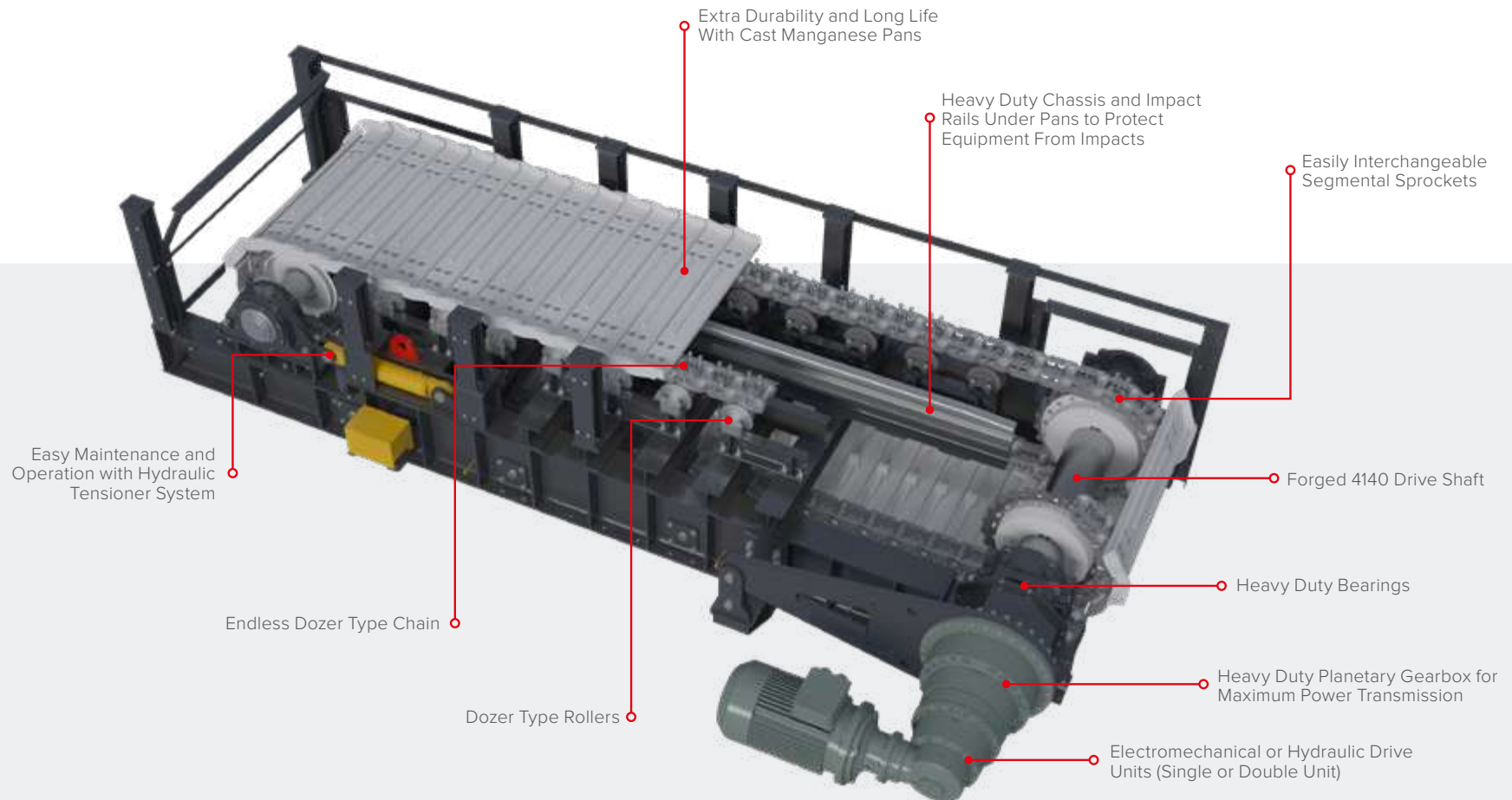


■ Hopper unloading, primary or secondary crushing stage (feeding of the crusher or screen)



READY FOR THE HEAVIEST WORKLOADS WITH EVERY DETAIL

MEKA
MAF SERIES
APRON FEEDERS



SCAN OR CLICK QR CODE TO WATCH
THE MEKA APRON FEEDER
ANIMATION



SCAN OR CLICK QR CODE TO WATCH
A VIDEO OF A FACILITY WHERE
MEKA APRON FEEDER IS USED



SCAN OR CLICK QR CODE TO WATCH
A VIDEO OF A FACILITY WHERE
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WHY MEKA APRON FEEDERS?

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 rollers. For ease of removing the carrier rollers, the outside carrier rollers 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 pans 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.



WHY MEKA APRON FEEDERS?

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.

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.

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 on deck during operation is maintained.

HEAD DRIVE SHAFT

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

WHY MEKA APRON FEEDERS?



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.



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.

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

TECHNICAL SPECIFICATIONS



SPECIFICATIONS

WIDTH	*CAPACITY	MAXIMUM FEED SIZE	CHAIN SPEED
(mm/ft)	mtph(stph)	mm (inch)	
900mm	110-350	380	0,1 - 0,30 m/s
(3')	121-385	(15")	20-60 fpm
1200mm	230-680	520	0,1 - 0,30 m/s
(4')	253-749	(20")	20-60 fpm
1500mm	350-1100	650	0,1 - 0,30 m/s
(5')	385-1212	(26")	20-60 fpm
1800mm	600-1750	830	0,1 - 0,30 m/s
(6')	661-1929	(32")	20-60 fpm

**Capacity Figures are provided for: 50% Bed Depth, 0,1-0,3m/s chain speed and for material weighing 1.6 t/m³ or 100 lbs/ft³.
Capacity values are indicative only and depend not only on feeder size but also on feeder inclination, feed gradation, etc.
Other sizes are also available on request.*

TRUSTED BRAND
IN MORE THAN
38 YEARS





THE CHOICE OF PROFESSIONALS IN MORE THAN 110 COUNTRIES: **MEKA**

MEKA has a global capacity with more than 80 engineers, nearly 500 employees and experience of producing more than 4500 complete plants. With 5 separate production facilities and a worldwide service network, MEKA is a reliable manufacturer.

With its after-sales services network and strong infrastructure in spare parts, MEKA does not only produce equipment or plants, but also offers you the comfort of predictable production and uninterrupted earnings.





Reliable Solutions for
Aggregate Production, Mining,
Recycling and Ready Mixed
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