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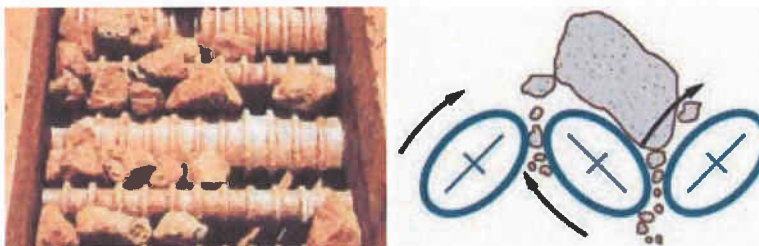
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- **Apron feeders**
- ▾ **Wobbler feeders**
- **Wear plates**

Wobbler feeders/scalpers

The unique action of Metso's wobbler feeder provides feeding and s materials in a single machine.



Even wet, sticky materials can often be handled due to the specially design cleaning, non-clogging elliptical bars.



Our wobbler feeders operate with low horsepower and headroom requirements without vibration, noise or transmitted stresses, making them ideal for both and portable applications.

We have been serving customers since 1889 in many diverse industries. Our brand and trademarked names include:

Stephens-Adamson, NICO

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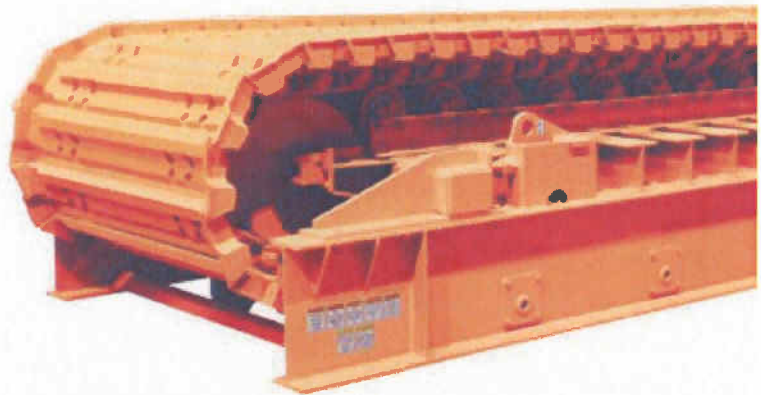
Universal Engineering

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Universal Apron and Wobbler Feeders

Apron Feeders

The Universal Apron Feeders consist of a continuous steel belt that is made up of over steel chains. The underside of these flights are reinforced and designed to withstand variable speed drives can provide close control of the feed rate to the crusher. Apron high tonnage of coarse material where the impact loads are too severe for other types



Universal Apron Feeders

Universal Tractor Chain Apron Feeders (sometimes referred to as Dozer Feeders and Designed for the demanding conditions seen for material handling applications in min operations. Universal manufactures six model chain sizes FL4, FD4, FD7, FD9, FD1C chain size is required for the Apron Feeder. There are fifteen standard widths and an to meet a wide range of tonnage and application requirements. For light duty applications they also offer Engineered Chain Apron Feeders (sometim

Wobbler Feeder/Scalper

The Universal Wobbler Feeder/Scalper provides two functions, feeding oversized mal fed material. This is accomplished by football shaped elliptical bars that are timed with sprockets. Each elliptical bar is timed 90 degrees apart, one bar tip up and the next b: the same rate of speed and this motion tumbles and moves the loaded material along maintained with a constant gap between them, which allows the fines to pass through



Universal Wobbler Feeder/Scalper

Wobblers are self-cleaning, and can handle wet sticky material and are very good with rock. Shot material can be dumped directly onto the wobbler bed of material or fed with lump sizes they recommend using the Apron Feeder and Wobbler combination to reduce fines. This can actually increase your systems output by scalping out material fines and letting your system process the larger material.

Universal manufactures four models, each with different standard widths and number of rollers to accommodate a wide range of tonnage and application requirements. Designed to scalp material from the apron feeder.

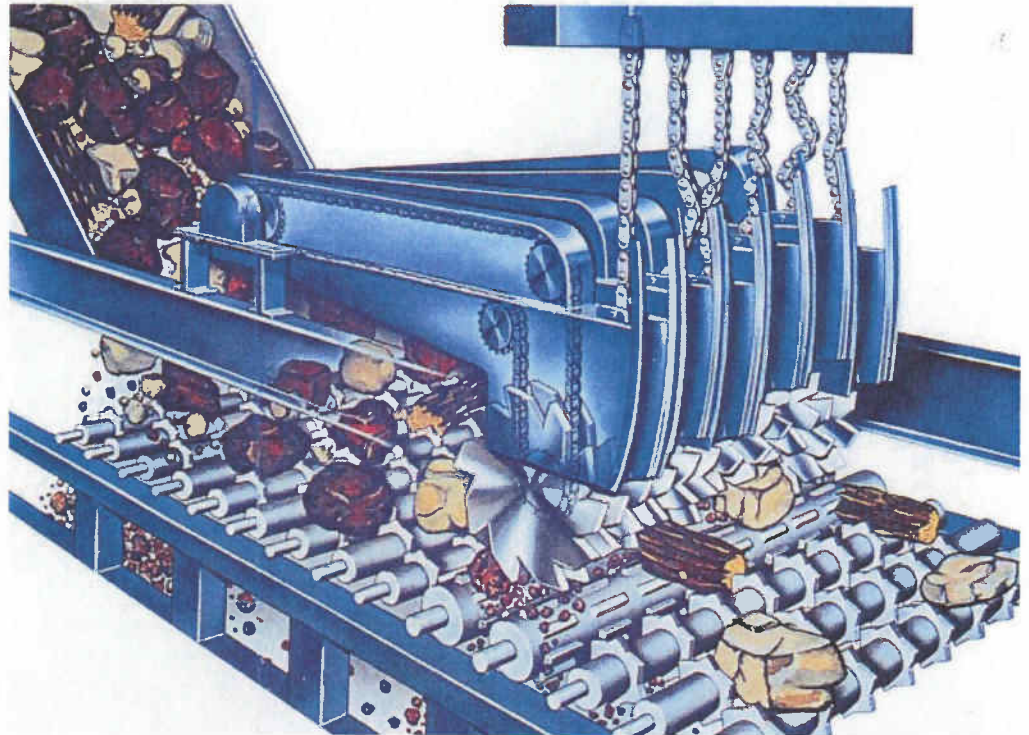
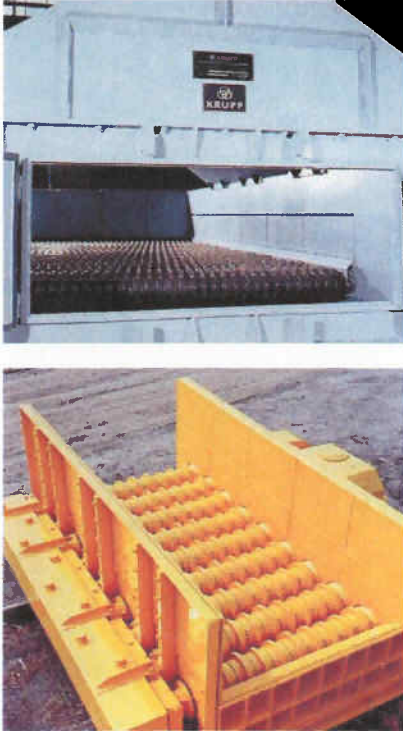
To learn more about Apron Feeders and Wobbler Feeder / Scalpers go to the REQUIREMENTS button to reach Universal Engineering directly.

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Wobbler Feeders, Reciprocating Plate Feeders, Siebra® Swivel-arm Crushers



Reliable components from ThyssenKrupp, constantly up to date.

Wobbler feeders are used to classify materials that prove difficult to screen. Depending upon the fractioning, wobbler feeders with extreme high throughputs have a great advantage in having no vibrating mass.

Reciprocating plate feeders are used for constant and even material draw-off from large feed bins and for the feeding of crushers.

Siebra® swivel-arm crushers are used for the selective reduction, separation and screening of lignite and its conglomerates. Such crushers are used almost exclusively in coal-fired power stations.

Top Left:

An enclosed wobbler feeder in a German power station for the separation of lignite at 15 mm. Each shaft is separately driven.

Bottom Left:

A wobbler feeder for separating minerals. The shafts are driven by a central drive.

Right:

Siebra® swivel-arm crusher.

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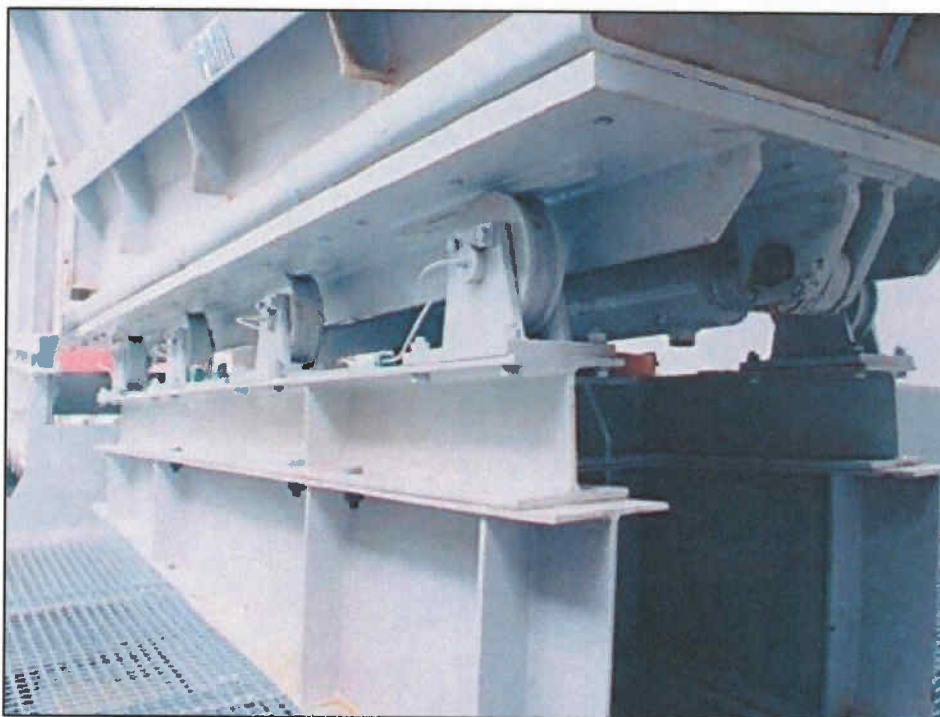
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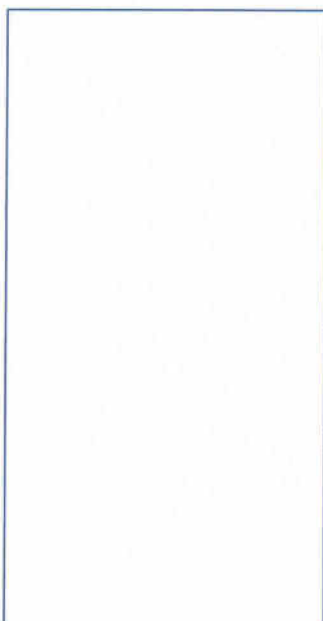
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Reciprocating Feeder





The **Agarwalla** reciprocating feeders are designed for heavy duty application in the primary section. It has been tested for synchronised flow of materials to the crusher, screening system and to the conveyors.

The reciprocating action is generated with the help of crank shaft and gear box. The tray movement distance and amplitude can be adjusted according to the requirement.

Electrical drives are provided with the feeder. A reciprocating feeder can be attached to any movable or stationary crushing and screening plant. It has a wear resistant line plate.

Size (in mm.)	Max. Feed (in mm.)	Output (Ton/hour)	Motor (H.P.)
650 x 1200	200	40 150	5 15
900 x 2500	600	160 300	15 25
1250 x 3000	700	320 800	25 50



FEEDERS



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Reciprocating Feeder

Our Reciprocating Feeder is designed on the principle of inertia wherein material to be fed are brought by gravity from a hopper or bunker on the top. The feeder is fabricated of high quality steel plates.

Salient Features of our Reciprocating Feeder

- ▶ Feeder tray mounted on the standard steel channel fabricated frame at an angle of 5 to 10 degrees for better feeding results
- ▶ Adjustable reciprocating stroke length upto 300 mm. depending upon the size of material
- ▶ Substantial width of tray to accommodate large lumps of material to be fed
- ▶ Tray and side walls lined with wear resistant plate for longer life
- ▶ High capacity model designed with twin eccentric disc as well as crank-lever mechanism

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Reciprocating Feeders

Size in mm	Max feed in mm	Output tons/hour	Motor H.P.
650 x 1200	300	40 - 150	5 - 15
900 x 2500	600	160 - 300	15 - 25
1250 x 3000	800	320 - 800	25 - 50



SL NO.	DESCRIPTION	QTY.	MATL.	REMARKS
1	WHEEL	1		
2	SHAFT	1		
3	SIDE PLATE	2		
4	SLEEVE	2		
5	KEEP PLATE	2		
6	BEARING-NU 1013 (SEALED)	2		
7	SOCKET HEAD SCREW	2		
8	M8HEX HEAD SCREW-25 LG + SPRING WASHER	4		
9	FELT SEAL	2		

SL NO.	DESCRIPTION	QTY.	MATL.	REMARKS
1	FEEDER TRAY	1		