

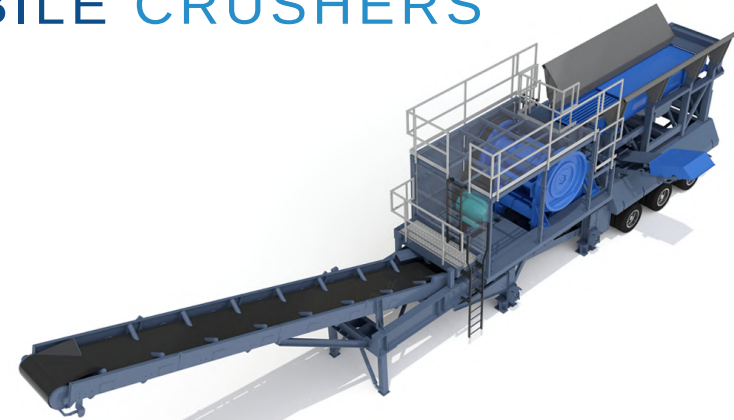


OVER 40,000 SCREENS



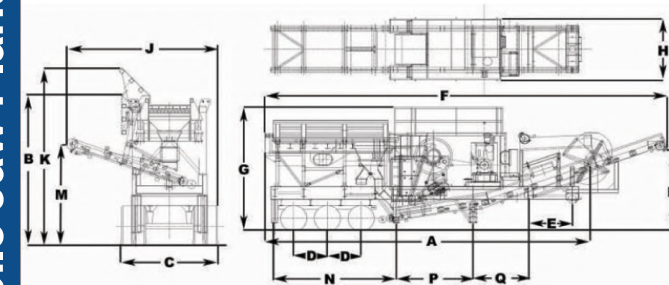
WWW.HEWITTROBINS.COM

MOBILE CRUSHERS



- **Instant Setup**- Hydraulic support legs, Folding feed hopper and Conveyor
- **Optimum Performance**- Higher output capability, lower travelling profile and highly manoeuvrable.
- **High Quality**- Totally commitment to 'quality'. ISO 9001 Certification, Designed to European regulations.
- **Low Cost Operation**- Low power consumption, Variable speed control, Long manganese life.
- **Ease of Maintenance** – Minimum component parts, Electric/hydraulic drive, Hydraulic setting adjustment.
- **Total Product Support**- Worldwide distribution network. Comprehensive service support. Extensive spare parts availability.

MJ Series - Primary Mobile Jaw Plant



Elevation showing MJ Series Mobile Jaw Crusher

MODEL	TRAVELING					WORKING									
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
1100 X 800	13040	3483	2490	1360	2300	16229	5000	2500	3770	4510	4000	2730	4900	3100	4000
900 X 600	8580	3365	2500	1230	2300	10520	5000	2500	3770	3385	3385	2080	4100	—	—

SPECIFICATION	MODEL	
	MJ1180	MJ960
Jaw size	1100 x 800	900 x 600
Range of Crusher Discharge Setting	50-125	40-125
Capacities	60-270	40-190
Nominal Speed RPM	250RPM	260 RPM
Jaw Crusher Drive	Direct from main drive coupling	
Grizzly Feeder Drive	Electric, with Variable Speed Control	
Main on-plant Conveyor Drive	Electric	
Dirt Conveyor Drive	Electric	
Vibrating Grizzly Feeder Width x Length (mm)	1160 x 3550	900 x 3050

JAW CRUSHERS

- **Designed** to meet today's recycling requirements
- **Hydraulic** jaw adjustment
- **Overload** protection system
- **Efficient** crusher motion maximises product output
- **Reduced** requirement for secondary crushing
- **High** production rates
- **Low** operating costs
- **Simplified** 'state of the art' mainframe

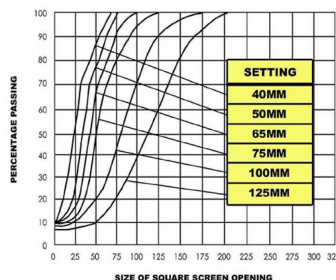


CAPACITY TONNES/HR

CSSmm	900x550	1100x800
40	40-55	N/A
50	50-65	60-120
65	55-75	100-160
75	75-110	120-180
90	95-120	135-210
100	100-140	155-230
125	120-190	180-270

Capacities shown are based on crushing clean dry concrete, weighing 1600kg/cu metre and with a compressive strength no greater than 165 Mpa.

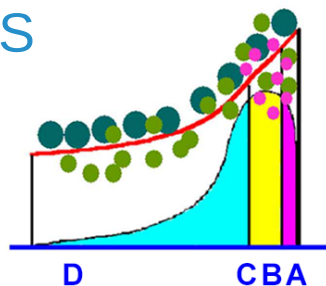
TYPICAL EX CRUSHER GRADING



BANANA-SCREENS

How a Banana Screen Works?

- A-B Large particles tumble faster than small particles. Stratification occurs at a very fast rate
- B-C Near Size screening occurs quickly due to thin bed depth
- C-D More screen length remains for far size screening to take place



Advantages of a Hewitt Robins Banana Screen

- Hewitt Robins Banana-Screens are designed for high capacity screening and come as wide as 3.6m. They can handle capacities upto 4000tph.
- Banana Screens come with a screen deck at 3 different angles and this is to achieve high capacity, efficient screening.
- They are both Linear and Circular motion screens and are typically fitted with a twin shafted, 8 bearing unit mounted above the screen frame.
- The majority of Hewitt Robins Banana-Screens are custom designed to fit into existing structures and buildings when current machines are in need of replacement.
- Hewitt Robins International Ltd Inclined Screens can be designed specifically to suit your application.

INCLINED SCREENS



- Our standard size of Inclined screens ranges from 1.25 – 3.6m in width and 2.4m - 9.6m in length and are available in single and multi-deck arrangements.
- Our Inclined Screens can use a single, double or even triple pair of vibrators mounted through the centre of gravity of the machine to impart a circular motion.
- Screens can be supplied with oil or grease lubricated depending on the application.

- Hewitt Robins inclined screens have become the world standard in bulk materials processing, proving their exceptional reliability and high productivity in the toughest industrial environments.
- Hewitt Robins inclined screens are designed specifically for long life and low maintenance.
- They are circular motion screens and are typically fitted with a single shafted vibrator unit and installed between 14-22 degrees downhill.
- The majority of Hewitt Robins Inclined Screens are custom designed to fit into existing structures and buildings when current machines are in need of replacement.
- Hewitt Robins Inclined Screens are proving their exceptional reliability and high productivity and have become the world standard in bulk materials processing.
- Hewitt Robins International Ltd Inclined Screens can be designed specifically to suit your application .

Hewitt Robins Inclined Screens are a bolted construction to allow single component replacement. Where possible Hewitt Robins will try and increase the distance between the decks to improve access for maintenance deck changes and improve health and safety. Hewitt Robins Inclined Screens can come with the option of friction check assemblies, Spray bars, extra wear resistant protection, Modular deck systems, Side tensioned decks, perforated plate decks, dust encapsulations and special protective paints.

HORIZONTAL SCREENS

Hewitt Robins Horizontal/Low Angle Screens can help in reducing conveyor heights, provide space for taller feed hoppers and can be installed where head room is at a premium.

Our Horizontal Screens are driven by the Eliptex Vibrator unit which imparts a three-way motion to the screen with horizontal, vertical and elliptical components providing high capacity, fast conveying and sharper sizing.

They are elliptical/linear motion screens and are typically fitted with either a two or four eccentric shafted vibrator unit mounted above the screen frame.

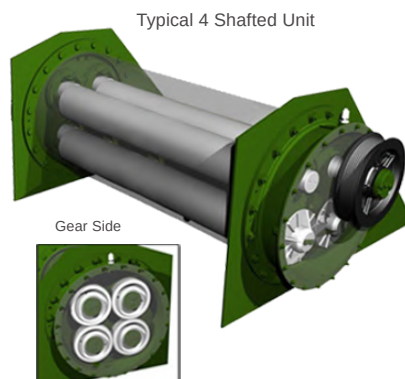
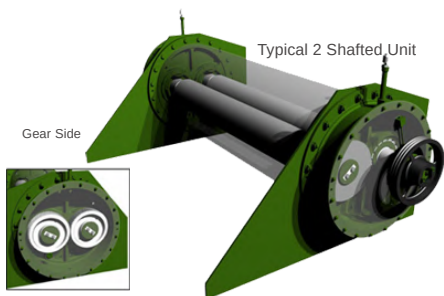
With the vibrator unit mounted above the machine this allows for better access between the decks for maintenance and deck changes.

Hewitt Robins Horizontal or Low Angle Screens are typically installed around 0-5 degrees downhill.

The majority of Hewitt Robins Horizontal Screens are custom designed to fit into existing structures and buildings when current machines are in need of replacement.

Elliptex Vibrator

The Hewitt Robins Elliptex Mechanism is time-tested and proven in thousands of installations throughout the world. Elliptex vibrators are acknowledged as the most reliable in the industry. The simple construction, rugged design and high quality components assures extra long wear life.



The motion of the Elliptex vibrator unit throws the material upward and forward in an elliptical motion with a turning action before it free falls back the machine deck. The Elliptex unit has tough, self counterweighted shafts with an oil splash lubrication system, slip fit spherical roller bearings protected against contamination by grease-purged, double lips seals; precision cut, wide face heat treated helical gears.

PAN FEEDERS

Hewitt Robins Pan Feeders are designed to continuously feed bulk material to processing and conveying equipment

They are typically mounted on coil springs, providing high production with an even disbursement of the product. Vibrating Pan Feeders are ideal for specialty applications involving high-impact and surge loading when it is essential to control the flow

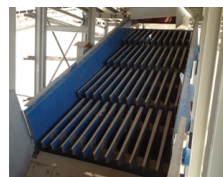
The feeder's pan bottom and sides are lined with impact, abrasion-resistant liners. The pan bottom is also lined with abrasion resistant impact liners



Our feeders can be driven by bolt on outer-balance motors or for bigger duties we use a mechanical or even 4 shafted unit which can handle capacities up to 6000tph

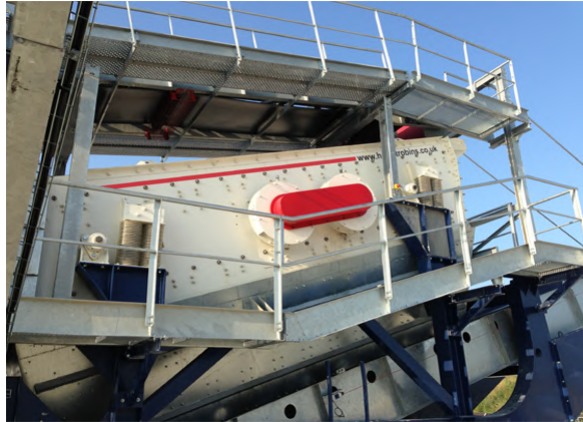
Hewitt Robins Vibrating Pan Feeders can be engineered in a variety of widths and lengths to fit any application

SCALPING SCREENS



Hewitt Robins Scalper are a bolted construction to allow single component replacement. Where possible Hewitt Robins will try and increase the distance between the decks to improve access for maintenance deck changes and improve health and safety. Hewitt Robins Scalpers can come with the option of friction check assemblies, extra wear resistant protection, Grizzly-bars, Finger decks, perforated plate decks, dust encapsulations and special protective paints

HIGH ENERGY SCREENS



The Hewitt Robins High Energy Screen operates at higher G forces than standard screens which means more energy is imparted into the material which separates the sticky material from the stone.

Standard screens normally operate at approximate 3G whereas a High Energy screen operates at 5.5G – 6.5G.

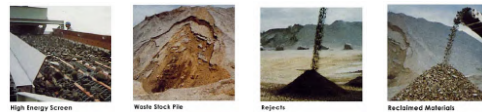
High Energy Screens have the ability to reclaim valuable aggregate from stockpiles of material previously classified as waste. The High Energy screen is also able to screen materials with high moisture content.

The Hewitt Robins High Energy Screens can produce high throughput with fine wet sands.

Hewitt Robins High Energy Screens are designed specifically for long life and low maintenance.

They are circular motion screens and are typically fitted with a single shafted vibrator unit and installed between 14-22 degrees downhill.

The majority of Hewitt Robins Inclined Screens are custom designed to fit into existing structures and buildings when current machines are in need of replacement.

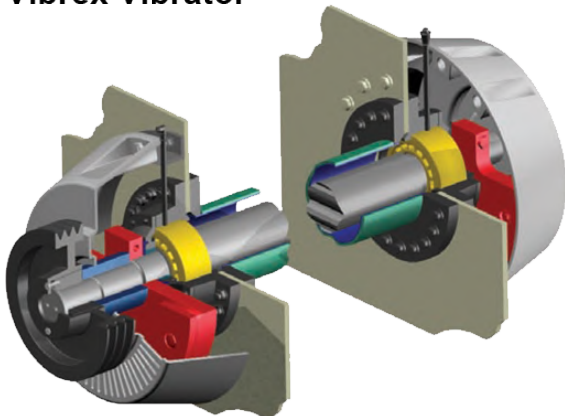


The Vibrex Vibrator mechanism is the perfect partner for screens up to 2.7m in width. Designed for long life and low maintenance the simple design ensures bearing changes or counterweight adjustments can be made with minimum downtime.

All vibrators have an eccentric shaft which reduces the counterweight size minimizing the shaft deflection. Light-weight counterweight guards are fibre glass, their light weight reduces dynamic stress on the screen side plates and enables them to be handled by one person during servicing.

Available in five standard bearing sizes.

Vibrex Vibrator



GRIZZLY FEEDERS



Hewitt Robins Grizzly Feeders are heavy duty & designed to handle heavy shock loads from truck hovels and loaders. They provide continuous feed rate under a variety of loading and material conditions.

They are typically installed under feed hoppers and can handle up to 2m³ material with capacities up to 8000tph.

Hewitt Robins Grizzly Feeders are linear motion and require either a 2 shafted or 4 Shafted Vibrator Unit to drive the machine depending on the application.

The standard grizzly area provides for either horizontal or sloped grizzly bars. This highly versatile feeder also offers adjustable bar spacing to complement various crusher settings.

The main frame is comprised of deep fabricated side frames and heavy-duty cross-members, all welded and into a unit which gives you years of maintenance free service.

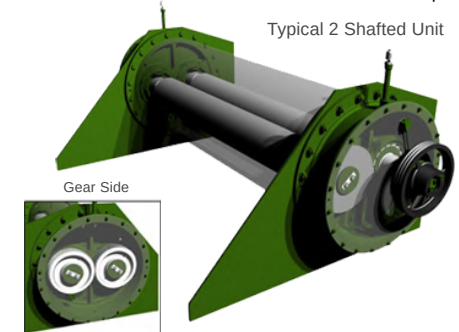
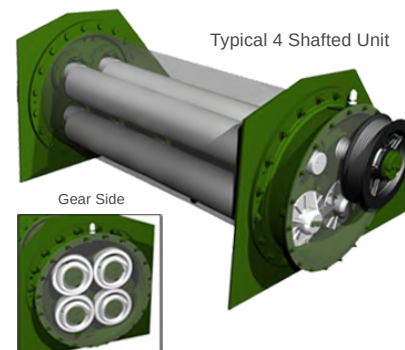
The standard grizzly area provides for either horizontal or sloped grizzly bars. This highly versatile feeder also offers adjustable bar spacing to complement various crusher settings.

Grizzly bars are easily adjustable. The tapered openings have a self-cleaning effect when rocks hanging between the bars are nudged along to increasingly wider openings.

Replaceable liners protect the pan. Liners are built in segments for the most economical replacement. Countersunk liner bolts avoid material build up.

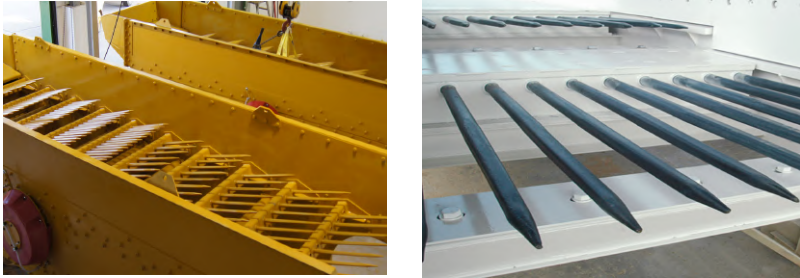
Elliptex Vibrator

The Hewitt Robins Elliptex Mechanism is time-tested and proven in thousands of installations throughout the world. Elliptex vibrators are acknowledged as the most reliable in the industry. The simple construction, rugged design and high quality components assure extra long wear life.



The motion of the Elliptex vibrator unit throws the material upward and forward in an elliptical motion with a turning action before it free falls back the machine deck. The Elliptex unit has tough, self counterweighted shafts with an oil splash lubrication system, slip fit spherical roller bearings protected against contamination by grease-purged, double lips seals; precision cut, wide face heat treated helical gears.

FINGER DECK SCREENS



Hewitt Robins Recycling Finger Deck Screens are designed to handle recycled materials such as woods, plastics, rubble and general waste. They are circular motion screens and are typically fitted with a single shafted vibrator unit and installed between 14-22 degrees downhill which can be adjusted.

Hewitt Robins recycling Finger Deck Screens are designed specifically for long life and low maintenance.

The majority of Hewitt Robins Finger Deck Screens are custom designed to fit into existing structures and buildings when current machines are in need of replacement.

Hewitt Robins International Ltd Finger Deck Screens can be designed specifically to suit your application.

WIDE-SCREENS



Our standard size of Wide-Screens ranges from 2.5 – 3.6m in width and 7.2m - 10.0m in length and are available in single and multi-deck arrangements.

Our Wide-Screens can use a single, double or even triple pair of vibrators mounted through the centre of the machine to impart a circular motion.

Screens can be supplied with oil or grease lubricated depending on the application.

Hewitt Robins Wide-Screens are a bolted construction to allow single component replacement. Where possible Hewitt Robins will try and increase the distance between the decks to improve access for maintenance deck changes and improve health and safety. Hewitt Robins Wide-Screens can come with the option of friction check assemblies, Spray bars, extra wear resistant protection, Modular deck systems, Side tensioned decks, perforated plate decks, dust encapsulations and special protective paints.

Hewitt Robins Wide-Screens are designed for high capacity screening and come as wide as 3.6m.

They can handle capacities up to 4000tph.

They have become the world standard in bulk materials processing, proving their exceptional reliability and high productivity in the toughest industrial environments.

Hewitt Robins Wide-Screens are designed specifically for long life and low maintenance.

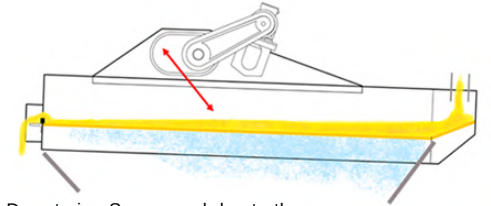
They are circular motion screens and are typically fitted with a twin shafted, 8 bearing unit and installed between 14-22 degrees downhill.

The majority of Hewitt Robins Wide-Screens are custom designed to fit into existing structures and buildings when current machines are in need of replacement.

Hewitt Robins International Ltd Inclined Screens can be designed specifically to suit your application.

DEWATERING SCREENS

Hewitt Robins have experience in processing materials ranging from crushed stones, metallic ores, slag to coal potash, rock salt and even wood chips. Hewitt Robins dewatering screens also find specific application in pre-wetting, de-sliming and draining.



The material is fed into the lined feedbox of the Hewitt Robins Dewatering Screen and due to the uphill angle of the screen the drier material discharges over the end of the screen and the water squeezes through the deck giving your product a lower moisture content.

Standard Sizes

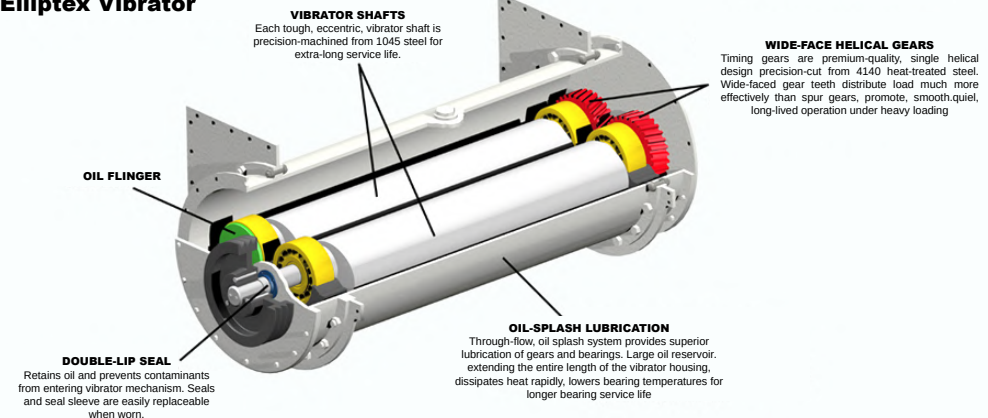
Hewitt Robins design Dewatering Screens specifically for your application so if the size of machine you require is not listed please contact your local sales office for more information.

0.70M WIDE	0.90M WIDE	1.25M WIDE	1.60M WIDE	1.80M WIDE	2.20M WIDE	2.50M WIDE
1.50M LONG	1.50M LONG	3.00M LONG	3.60M LONG	4.20M LONG	4.80M LONG	4.80M LONG
2.00M LONG	2.00M LONG	3.60M LONG	4.20M LONG	4.80M LONG	6.00M LONG	6.00M LONG
2.50M LONG	2.50M LONG	4.20M LONG	4.80M LONG	6.00M LONG	7.20M LONG	7.20M LONG
3.00M LONG	3.00M LONG	4.80M LONG	6.00M LONG	7.20M LONG	8.40M LONG	8.40M LONG

Umbex Dewaterers - For smaller applications Hewitt Robins can offer the more economical Umbex de-waterer which is driven by a single or twin low noise outerbalance motors.

The Hewitt Robins Dewatering Screen can come with many optional extras to suit your requirement such as on-board motors, additional crossdams, extra liners, adjustable discharge lips, rear draining walls and a number of different types screening media including polyurethane and stainless wedge wire.

Elliptex Vibrator



RING GRANULATORS



Highest Capacity Ring Granulator Developed In Country.

Specially Designed For High Capacity Crushing Of Coal And Lignite (Range From 40 To 1600 TPH).

Unique Crushing Action Result In Higher Output And Lower Power Consumption.

Maximum Feed Size Is Up To 500 mm.

Ideal For Product Size Of (-) 20 mm. With Uniform Granular Product.

Crushing Action Involves Minimum Attrition And Hence Produces Minimum Fines.

Maximum Accessibility Is Provided To Ease The Routine Inspection.

Positive Adjustability - Quick, Easy External Adjustment Of The Cage Assembly Can Be Done While The Crusher Is Running

Automatic Removal Of Tramp Iron - Rear Access Door Allows Fast, Easy Removal Of Debris

Hinges Cage - Adjustable Concentricity With The Rotor Balances Wear Evenly Among All Cage Bars.

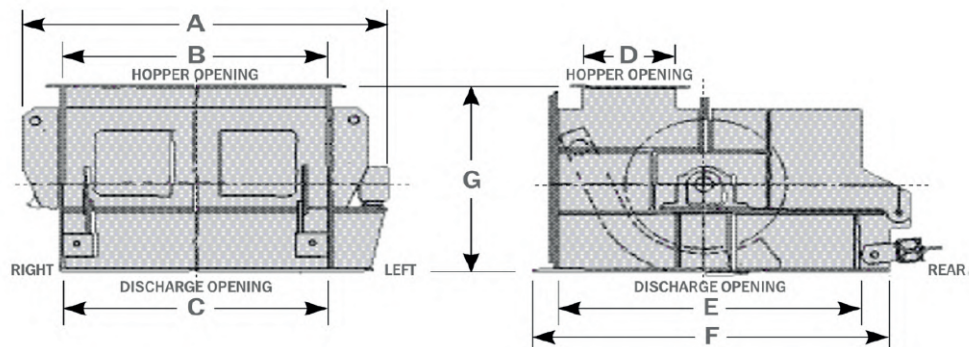
Wide Hopper Opening - Results In Uniform, Even Feeding No Bridges And Material Build-up

Replaceable abrasion-resistant steel liners

Statically/dynamically balanced to operate with minimum of vibration and noise.

Forged and heat treated alloy steel.

Heavy cast Mn-steel toothed and/or plain Crushing Rings depending upon applications.



DIAMETER X LENGTH	IN. (MM) A	APPROXIMATE LAYOUT DIMENSIONS** AND SHIPPING WEIGHTS						LBS (KG)
		B	C	D	E	F	G	
R 2620	30-13/16" (783)	24-3/16" (614)	18-5/8" (473)	13" (330)	23-5/8" (600)	55" (1397)	2-1/2" (64)	3,500 (1,588)
R 2640	42-3/4" (1086)	33-5/8" (854)	37-1/2" (953)	33" (838)	42-1/2" (1080)	76-3/8" (1940)	3" (76)	4,700 (2,132)
R 2650	49" (1245)	38-3/8" (975)	47" (1194)	44" (1138)	52" (1321)	87-3/8" (2219)	3-1/2" (89)	5,300 (2,404)
R 3678	121-15/16" (3097)	79-3/4" (2026)	80-1/2" (2045)	18" (457)	69-7/8" (1775)	79-1/4" (2013)	51" (1295)	14,400 (6,532)
R 4482	124-1/2" (3162)	74-3/8" (1889)	82-3/8" (2092)	22" (559)	84-3/4" (2153)	99-1/4" (2521)	64-3/4" (1645)	24,410 (11,072)
R 48114	164-7/8" (4188)	107" (2718)	115" (2921)	25" (635)	91" (2311)	105-1/2" (2680)	71-1/2" (1816)	40,200 (18,234)

**** ALL THE DIMENSIONS ARE TENTATIVE IN NATURE MAY CHANGE AT THE TIME OF FINAL SELECTION

SHUTTLE CONVEYORS



Manufactured in pieces as per the requirement and assemblies with the help of hinge and fix support

Driven electrically

Upto 2400 tonnes per hour

Material handled coal, iron ore, limestone etc. to fill the bunker or to feed different conveyors

It consist of

1. Conveyor drive.
Coneyor drive consists of an electric motor, reducer and a coupling
2. Long travel drive assembly,
The travel drive is through a direct wheel axle drive design. A hollow shaft mounted gear box is placed directly on the wheel axle.
3. Bunker belt sealing
It is very rarely required in shuttle conveyor for which a special type of chute is designed.

Shuttle conveyor is a piece of belt conveyor mounted on a travelling trolley, with long travel drive for smooth, to and fro motion on rail. Easy and trouble free operation ensures long life to the equipment resulting in efficient performance of the entire plant. It is used for feeding material at a desired position on bunkers or conveyors.

The shuttle conveyor is a simple equipment consisting of idlers, pulleys, conveyor belt, conveyor drive, reducers, take-up, skrit board, scrapers, etc. with L.T drive mounted on carriage. Substantial fabricated frames support the heavy components like pulleys, take-up, conveyor and travel drive mechanism. Deck plates between the carrying and return strand of the belt ensure that spillage does not take place on the return belt.

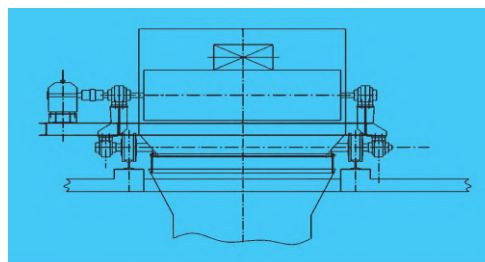
Features

> There are options of drive system. Drives with chain-and sprocket; direct drive with hollow shaft mounted gearbox alongwith motor and brake.

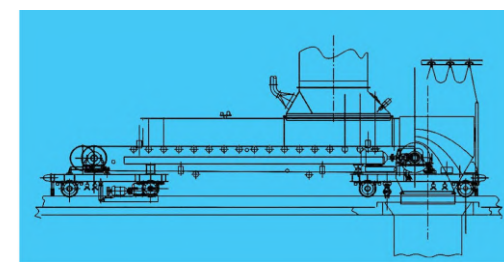
> Direct drive is also available with a hollow shaft mounted geared motor with an inbuilt brake.

> The machine can be controlled either by local operation from the machine or by remote operation from control station with selector switch or both.

> The machine has been provided with all safety controls and limit switches, such as over travel limit switch, normal travel switch, zero speed switch, pull cord switch, belt sway switch etc.



FRONT VIEW OF A SHUTTLE CONVEYOR



SIDE VIEW OF A SHUTTLE CONVEYOR

APRON FEEDERS



Apron Feeder is an equipment widely used in Bulk material Handling. Its application is found in almost all sectors like power, steel, cement plant, etc. Where high fall height or large drag is required.

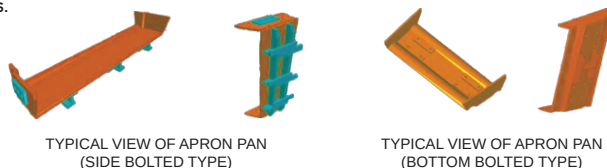
The Apron Feeders are broadly classified as

- Extra heavy duty Apron Feeder with crawler chain-sprocket assembly.
- Extra heavy duty Apron Feeder with link-chain assembly.
- Heavy duty Apron Feeder with link-chain assembly.

HR IPL extra heavy-duty type Apron Feeder is so rationally and strongly designed and manufactured that it can be operated in a stable manner even under severe conditions.

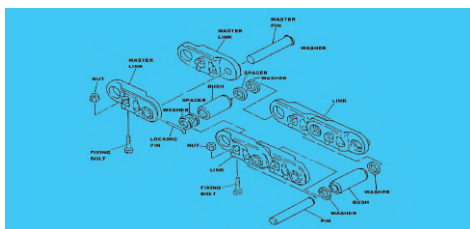
MAIN PARTS

- Apron Pan and Conveyor Chain
- Feed
- Driving machine
- Frame, Hopper, Skirt, Chute
- Lubricating device
- Overload safety device



TYPICAL VIEW OF LINK CHAIN FOR APRON FEEDER
TYPICAL VIEW OF FEED ROLLER FOR APRON FEEDER

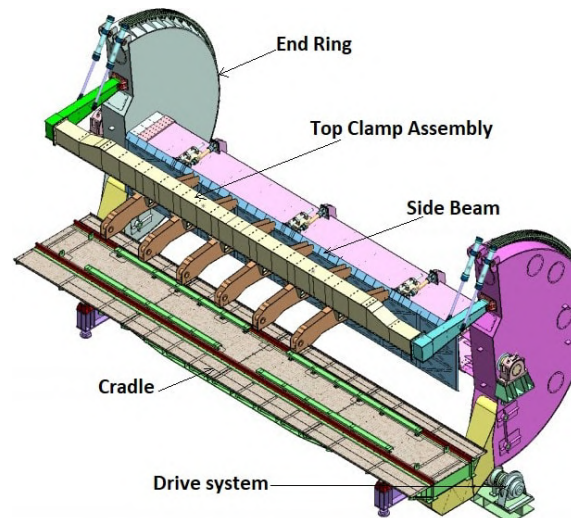
TYPICAL VIEW OF TRACK CHAIN
ASSRMBLY FOR APRON FEEDER



VARIANTS OF APRON FEEDERS

Sl. No.	Size		Apron Chain		Capacity	Inclination	Material	Lump	Remarks
	Ap. Width	Length	Pitch (mm)	Stren. (ton)	(t.p.h.)	(degree)		(Max.)	
1	1200	6M - 10M	175.5	84	1000	0	Clinker, Gypsum, Coal, Iron Ore	100	Electro.Mech Drive Hydraulic Drive
2	1600	6M - 10M	300	100	150-900	0		300	
3	1700	6M - 10M	171.1	59	1320	0		340	
4	1800	6M - 20M	300	120	1320	0		400	
5	2000	6M - 20M	300	120	300-1700	0		300	
6	2150	6M - 20M	203.2	124	470	0		340	
7	2400	6M - 20M	400	200	2420	0		250	

WAGON TIPLER



Main Components :

- Tippler drive Unit
 - Hydraulic Drive with Power Pack
 - Electro - mechanical
- End Ring with Sector Gear
- Movable Side Support
- Top clamping arrangement
- Tippler platform
- Brakes
- Counterweights
- Hydraulic Clamping
- Main bearing and main shaft

1	Type	Electro Mech, Hydro Mech, Hydraulic
2	Capacity of wagons that can be handled at a time	Confirming to G33-R1
3	Rail track gauge	1676 mm
4	Load capacity	140 t gross
5	No of tipping per hour	25 tips per hour
6	Angle of rotation(Approx)-degree	160 Max.
7	Height of wagon handled	All wagons as per G33-R1
8	Width of wagon handled	All wagons as per G33-R1
9	Type of lubrication arrangement provided	Manual
10	No of clamps provided (Hydraulic)	Six

At rest position of the Wagon Tippler the Movable side support moves forwards and touches the side wall of the wagon gently and gets locked. At the start of rotation of the end rings the rail platform with loaded wagon lifts from its supports and as a result of the offset pivot, the wagon adjusted slightly and rests against the longitudinal movable side beam. Top-clamping device is actuated by hydraulic cylinders.

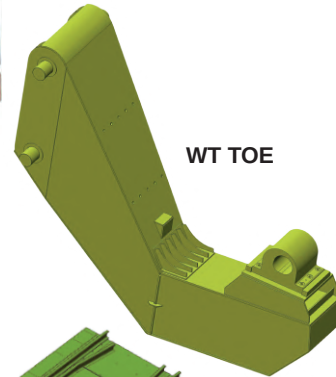
During the tipping operation, Top clamping device starts moving to clamp the wagon from top. At 40 Deg (approx) of the wagon rotation, top clamp comes in contact with the wagon's topcoping. At this condition cylinders get locked, in turn wagon is securely held between cradle platform and top clamp pads. Rotation continues up to 160 Deg. In the process of discharge, the cylinder force is so adjusted hydraulically that no extra force is applied on the wagon walls. After a pause of 3 sec., return cycle starts. The release of the top clamp device takes place at 40 (approx) from the rest position. The cradle platform with empty wagon comes to rest position. The empty wagon is pushed out and the platform becomes ready to receive next loaded wagon.

The tippler is interlocked electrically with Side Arm Charger and succeeding equipment (feeders below hopper) with respect to operational & safety requirement.

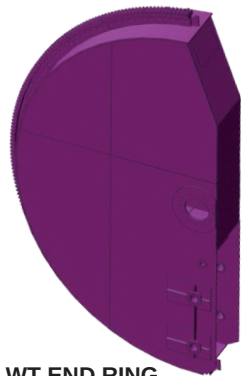
WAGON TIPPLER SYSTEM



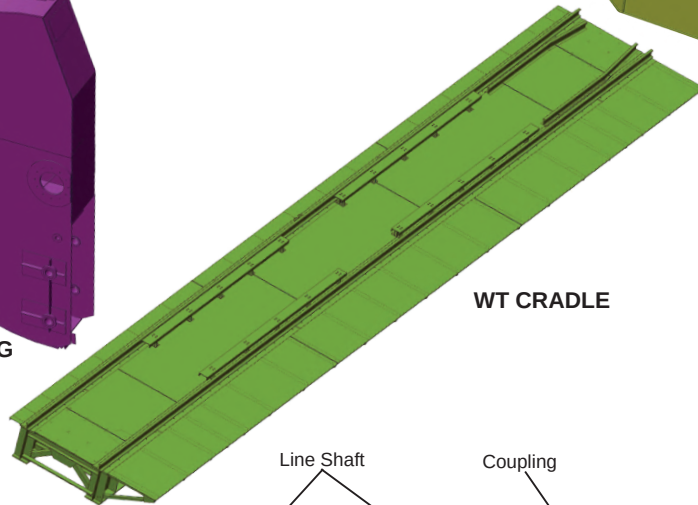
WT SIDE ARM CHARGER



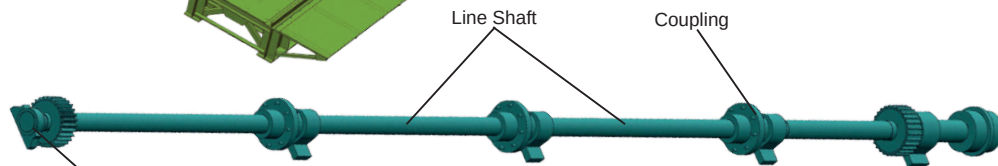
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WT END RING



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