



CONVEYORS

BELT CONVEYORS & COMPONENTS

VPPL Belt Conveyor is custom designed & engineered for total reliability and capable of handling a wide variety of bulk materials for various applications and also suitable for handling certain corrosive materials.

Standard Belt widths offered ranging from 400 mm to 2600 mm as per CEMA / IS Standards. However, intermediate Belt widths are also supplied as per Customer requirements.

Components like Idlers, Idler Frames & Pulleys are conforming to CEMA /relevant standards are also supplied in various configurations to suit different duty conditions.

SCREW CONVEYORS

VPPL makes horizontal/inclined as well as vertical Screw Conveyors based on CEMA / IS standards and also, with troughs designed for dust-tight construction.

Screw Conveyors are bulk material transporting devices capable of handling a great variety of materials which have good flow- ability and takes up very little space aside from the necessarily occupied by the moving stream of material.

Standard Screw diameters are offered ranging from 100 mm upto 1250 mm (or) as per customer's requirement.

TRIPPER CONVEYORS with BUNKER SEALING ARRANGEMENTS

These customized, stationary conveyor systems are designed for large volume stockpiles on limited footprints like inside storage or a small section. With intermediate discharge points, users can unload material on either side of the conveyor, create custom heights, lengths and locations for multiple different piles.



SHUTTLE CONVEYOR

Shuttle Conveyor is self propelled type. The whole conveyor & its support structure is mounted on wheels which can move to and fro to a certain distance on a pair of rails.

This conveyor is used where the conveyed material is required to be discharged at number of points but one after another, because it can be effected only at a time.





CONVEYORS

SHUTTLE CONVEYOR

Depending upon the overall length of the conveyor and its structure, quantum of load that the conveyor carries there may be one/two/ three sets of driving wheels which are driven by electric motor and gear box.

Shuttle Conveyor will be required to fill different bunker; to feed different conveyors; to divert the material from one part to other part of the plant.



DRAG CHAIN CONVEYORS

A scraper flight conveyor consists of metal, wood, or plastic flights attached at uniform intervals to one or two strands of endless chain which moves the flights along in a trough, the chain or chains passing around sprockets at the end of the trough. Material can be discharged at any point along the trough through gates or at the end.

EN MASSE CONVEYORS

VPPL Design & supply **En Masse Conveyors** as per customer requirements.

En Masse principle of conveying is both unique and highly efficient. It has got Horizontal Chain Conveying & Inclined / Vertical Chain Conveying system.

En Masse Conveyor can be installed with bend sections enabling horizontal-to-vertical (or) horizontal-to-inclined configurations.



Chain Conveyor designed for open-trough, fabric-filter dust collectors. The action of the return chain moving across the Hopper has a live bottom effect which ensures a smooth, continuous flow of material into the conveyor.

Coal and Limestone materials have a surcharge angle. Hence, en masse conveying is well suited.





CONVEYORS

SLAT CHAIN CONVEYORS/ELEVATORS

VPPL Design & Supply Slat Chain Conveyors which are efficient in moving the materials from one place to another place. It is generally used in PROCESS INDUSTRIES and are capable of transporting bulk commodities of Light, Medium & Heavy applications like Bagasse etc.



SUBMERGED CONVEYOR

Submerged Belt Conveyors is Meant for Hot Ash collected from traveling grate of Boiler furnace. Is collected directly into water filled trough, wherein a moving belt is installed to take out Wet Ash from the trough. A process wheel is employed at entry & exist point of belt to hold the belt in it's troughed shape. These process wheels are free to rotate by moving belt to avoid friction & thus damage to belt.

The trough is either fabricated from thick plates with suitable stiffeners or can be provided in casting as per client's requirement.





EQUIPMENTS

BUCKET ELEVATORS

VPPL Bucket Elevators are made to a high quality standard design based on CEMA/IS standards.

Bucket Elevator consists of a series of uniformly fed buckets mounted on an endless chain or belt which operates overhead and foot wheels

The buckets are used to elevate (usually vertically) pulverized, granular, or lumpy materials.

Casings are fabricated from MS sheets & liberally stiffened to give added load carrying capacity and true alignment.

Chains are normally used for elevators with heavier duties, high capacities and lifts.

Belts are recommended for handling free flowing materials as also for corrosive materials while Pin and Bush type Chain is normally used.

Link Chain & U-Bolt combination is provided on heavy-duty elevators depending on the applications.

The materials is received at the boot, raised and then discharged by passing overhead wheel at the top, into a discharge chute.



SCREW COOLERS

VPPL Screw Coolers are continuous cooling or heating Screw Conveyor for bulks, powder, granules, pasty or muddy products. The cooling and heating function is accomplished through chilled water, steam or other thermal fluid passage into the screw and double jacket.

The air extraction in the top opening allows the control of the atmosphere conditions above the products wet extraction, dried air injection...

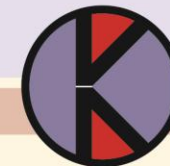
Paddles fixed to the screw allow a perfect homogeneous treatment, mixing, conveying, and cooling or heating transfer.

Upto 10M3/H

Minimum Temperature +2°C

Maximum Temperature +900°C





EQUIPMENTS

SCREW FEEDERS

Material is extracted in batches from a silo and then fed into a weigh hopper.

Feed rates of smaller screws are more accurate than those achieved with larger diameters.

Consistently, larger **Screw Feeders** require micro-feed aids in order to improve their poor feeding accuracy.



ROTARY TABLE FEEDERS

VPPL Rotary Table Feeder consists of a power circular plate, rotating directly below the bin opening.

An adjustable feed collar, located above the rotating table, determines the volume of material delivered.

These feeders are used generally with round, vertical bins and for handling materials which have a tendency to arch; such as damp sand, wood chips, and fine salt.

The opening in the bottom of the round, vertical bin is large, so that material cannot arch over it



ROTARY FEEDERS

VPPL Design & supply Mechanical type of Manual / Motorized Rotary Feeders meant for Feed Material in Process to Next Station.

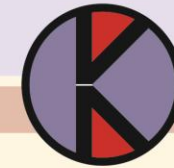
They are suitable for controlled discharging and feeding from Silos, Hoppers etc.



WET SCRAPPERS

Wet Scraper is commonly conveyed to collect DUST at elevated temperature which includes Bagasse, Clay Dirt, Coal, Fly Ash & Slag etc. Generally, construction is more or less identical to Chain Conveyor filled with water. However, differs in Tail end and Drive end.



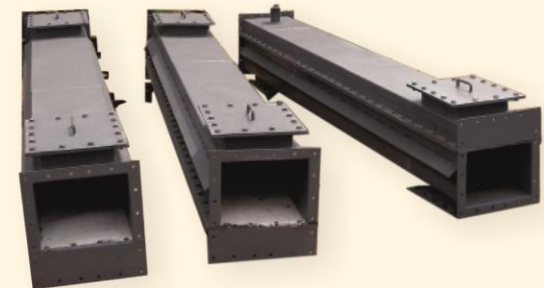


EQUIPMENTS

AIR SLIDES with BLOWERS

Air Slide without the use of moving parts, these gravity conveyor transport fine, dry bulk materials, with a minimum of abrasive wear on the conveyor.

Dry materials flows down inclined conveyor, fluidized by low-pressure air entering beneath porous medium.



The **Air Slide** conveyor is easily installed, with simple floor or overhead support which released valuable floor space for other used. Operation is dustless and noiseless with extremely low power consumption. Conveyor line needs no lubrication, and is self-cleaning, so there is almost no maintenance.

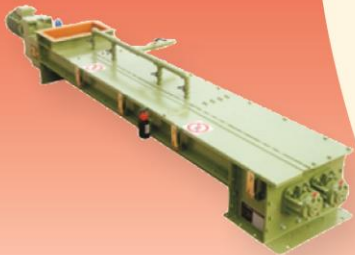
Wet Scraper will always have;

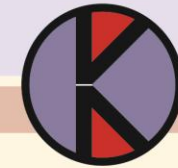
- Tail End & Drive end are at Inclined position normally.
- Double strand.
- Low linear speed for highly abrasive material.

It is mostly used in Furnace Coal Ash Disposal, Bio-mass Fuel Ash, Pulverized Coal Fired Boilers & other fuel applications and are largely used in Power & Sponge Iron Plants.

STORAGE BUNKER with ASH CONDITIONERS

Easy installation and High degree of homogeneity of conditioned material Variable throughout rates, wide range of construction materials, Easy cleaning, Modular system, Reduced overall dimensions, Little maintenance, No contamination.





FLOW CONTROL PRODUCTS

ROTARY AIR LOCK

VPPL Rotary Air Locks designed for either manual or remote controlled drive, are used under silo deck slabs and bins to permit the free flow of pulverized materials which tend to arch, such as lime and cement raw materials. Free movement of the rotor to an opened or closed position is assured by careful machining and alignment of the trunnion shafts and dust-tight bearings.

Leakage in the closed position is prevented by close tolerance and double seal.

Knife edges and "V" slots at the end of the rotor avoid sticking of packed material.

DOUBLE FLAP VALVE

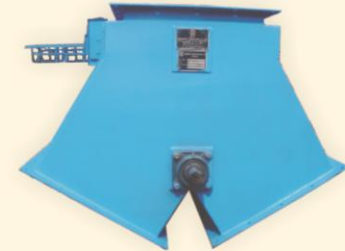
VPPL valve consists of two flaps connected by counterweights or spring loaded spindles, which are operated by means of a motor driven cam.

The cam alternately opens each flap allowing materials to pass through the separate chambers in batch form and thereby ensuring a gas seal.

FLAP GATES / DIVERTING GATES Manual/Motorized/Pneumatic Type

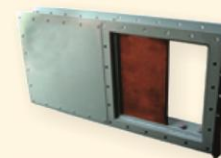
VPPL gates are precision-built for selection of flow path in pneumatic conveying lines or gravity discharge chutes.

Tunnel-type or plug-type for pelletized materials; flap-type for powdered materials.

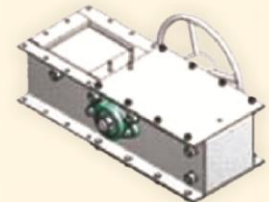


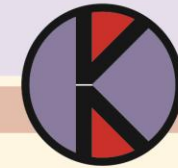
Available in manual, air or motor-operated models.
Accurate operation maintained throughout long life.

RACK & PINION



SLIDE GATE





CUSTOM FABRICATION

INTER CONNECTING CHUTES

We design and manufacture chutes to meet specific customer requirements.

Chutes are used for guiding the flow of bulk materials and connecting conveying and processing equipment together.



HOPPER'S

We are offering first-class quality **Hopper Silos** & we use finest raw material in the fabrication of this product.

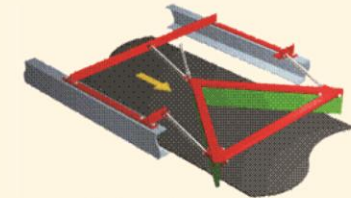
The offered storage hopper silos are available with hopper Bottom and are used to store bulk material.

We provide this product in custom form as per the requirements of the clients.

Salient Features are Durable, Corrosion resistant & are in different sizes

PLOUGH ARRANGEMENTS

Plough arrangement is positioned prior to the tail pulley on the inside of the belt towards the direction of belt travel.



This arrangement will clean fine materials and remove larger lump products.

The Plough has an adjustment turnbuckle arrangement to reduce the potential of blades scalping the belt.

DUCTING

(Tunnel Ventilation, Dust Separation & Dust Extraction)



We manufacture Precision Engineered Ducting widely.

Salient Features: Durable, Performance Oriented, Efficient Working, High Temperature Tolerance, Application Specific Design

Ducting is manufactured as per design and drawings provided by customers.

