

Pipe Conveyors belts

We offer pipe conveyor solutions for all types of bulk materials such as cement, fertilizers, steel etc. the belts offer several advantages such as enclosed, clean and environment friendly transportation eliminating all spillage, low noise emission, curvature possible in both horizontal and vertical planes associated with steeper angle of inclination. The belt can negotiate tight horizontal and vertical curves . this eliminates or reduce transfer point ,which is a big cost saving . inclinations of up to 35° can be dealt with.

As in a conventional troughed conveyor and dependent on the belt tensions the construction of a pipe conveyor belt could be fabric or steel cord. However as the belt is required to form the pipe shape, several important features are employed in its design.

A special carcass construction is employed as the belt requires adequate stiffness as it is made to form the pipe passing through the idler rolls. Flexibility for transition from the flat to pipe shape at the feed end and pipe to flat at the discharge end is also essential. A layer of special rubber compound is usually placed between each fabric ply to achieve this.

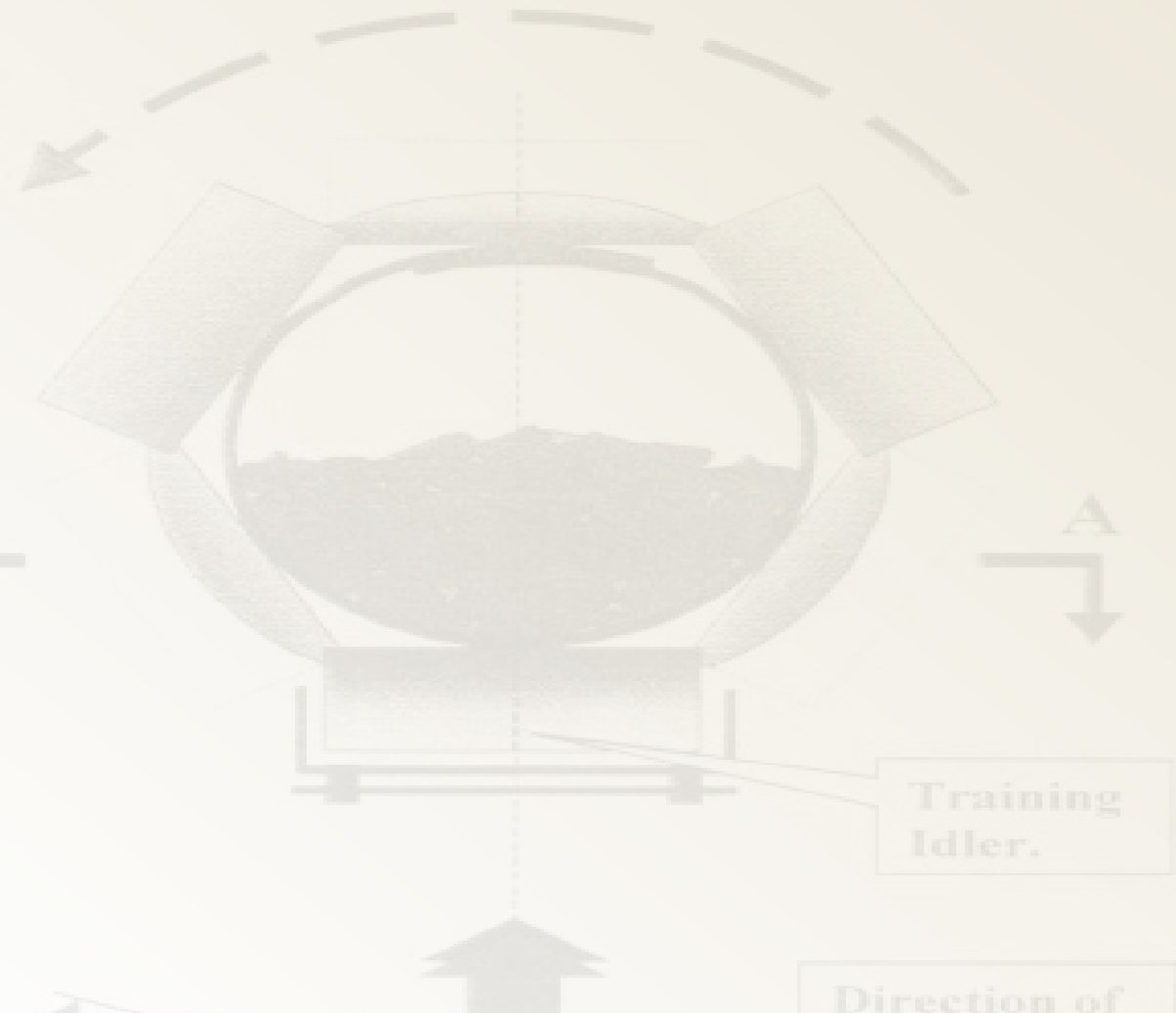
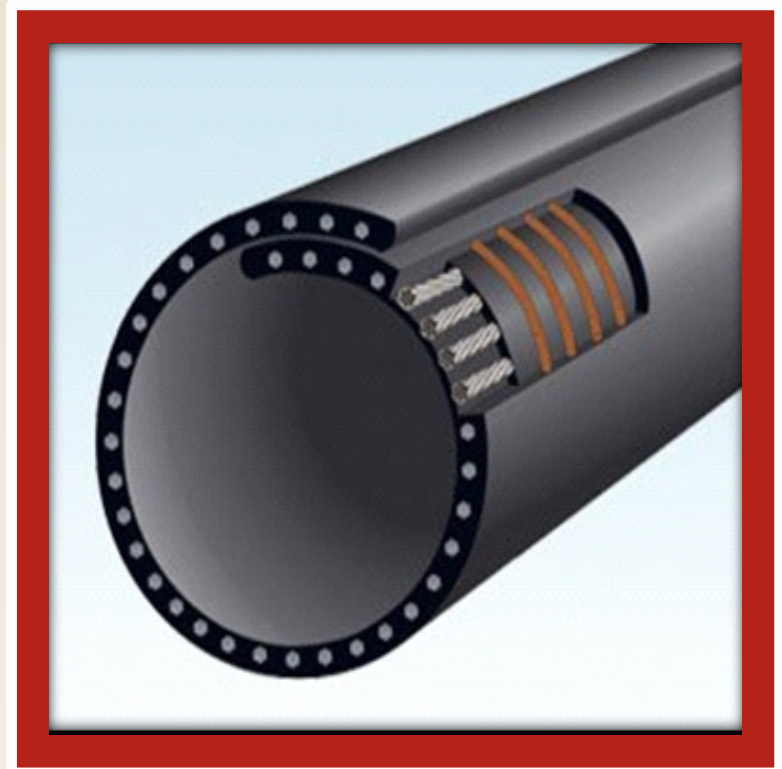
Belt edge stiffness must be reduced for the belt to overlap and prevent material spillage. The plies at belt edge are therefore broken and specially arranged. In addition top and bottom belt cover grades as well as curing times are specially controlled to prevent the belt's natural tendency to remember its pipe shape. In steel cord pipe conveyor belts, transverse is used above and below the steel cables with a layer of rubber separating the fabric from the cords.

Features

- Low power consumption
- Multiple feed and discharge points
- Simultaneous conveying of different materials in both directions
- Dust all spillage free transportation
- Low noise emissions
- Vertical and horizontal curves with radii of 45 meters
- Inclines up to 35°

Applications

- Cement
- Fertilizer
- Coal
- Power
- Steel
- Pulp and paper
- Food grains



Pipe Conveyor Data sheet

Pipe dia. (mm)	Load area (m ²) (75%)	Belt speed (m/min)	Conveying Capacity (m ³ /hr)	Max lump Size (mm)	Horizontal Min. length (m)	Equivalent Traditional Conveyor belt
100	0.006	100	36	30	15	300
150	0.013	120	95	30-35	18	300-450
200	0.024	130	185	50-70	20	500-600
250	0.037	140	310	70-90	23	600-750
300	0.052	150	475	90-100	25	750-900
350	0.072	175	750	100-120	30	900-1050
400	0.095	200	1140	120-150	35	1050-1200
450	0.15	225	2000	150-200	50	1500-1800
500	0.215	250	3200	200-250	50	1500-1800
550	0.285	275	4700	250-300	60	1800-2000
600	0.425	300	7650	300-400	70	2000-2400