

CONVEYOR IDLER OPTIONS FOR IMPROVED PERFORMANCE

IDLERS WITH INNER PROTECTIVE SEALS

Where the conventional steel idler continues to be the choice of most conveyor users it is important that an idler with a good bearing sealing arrangement is chosen.



One of the most common causes of idler bearing seizure is from condensation that builds up inside the shell due to fluctuating air temperatures. Hence an idler designed with an inner bearing seal as well as an outer sealing arrangement will help prolong the running life of the idler.

► **TekTip:** Selecting a larger idler diameter will increase the running life of the idler bearing

THE RUBBER SPIRAL RETURN ROLLER

This type of return idler is self cleaning and will also help reduce tracking problems.

It is a good alternative to the disc return roller, that although will stay clean, may cause tracking problems or allow the belt to become lodged in between the discs.



THE HDPE POLYMER IDLER

The use of High Density Polyethylene (HDPE) Polymer rollers will help prevent the build up of material on the surface of the idler by sticky material.

Due to considerably less weight (up to 50% less than steel) the polymer roller will absorb less power resulting in reduced running costs and is easier handled thus reducing the risk of injury.



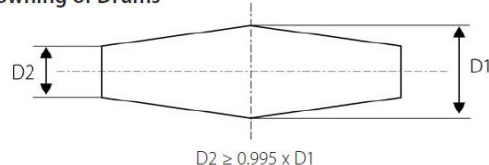
ASSIST BELT TRACKING BY THE USE OF CROWNED FACED PULLEYS

Maximum permissible crown (minimum diameter of D2)

D1 Drum diameter (mm)	D2 Drum diameter (mm) minimum
125	124.38
160	159.20
200	199.00
250	248.75
315	313.43
400	398.00
500	497.50
630	626.85
800	796.00
1000	995.00
1250	1243.75
1600	1592.00

A conveyor belt will always travel on the highest point. Hence by creating a high point in the middle of the pulley the belt will tend to remain central and hence assist tracking.

Crowning of Drums



► **TekTip:** Exceeding the recommended maximum crowning dimensions may result in belt and joint damage

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