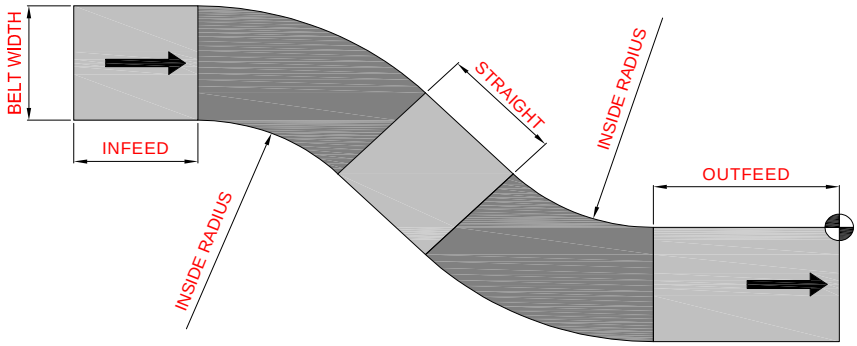
TWENTEFLEX CURVED CONVEYOR GUIDELINES

Twenteflex belts are developed to obtain optimum contact between belt edge and inner guide rail.
The innovative bended rod design eliminates breakage of rod and button head due to welding.
The elimination of welding ensures full material quality and belt strength.



► Design Guidelines

▪ Outfeed after curve, drive section	Minimal 1.5x Belt Width
▪ Infeed before curve	Minimal 1.0x Belt Width
▪ Straight between two oposite curves	Minimal 2.0x Belt Width

► Twenteflex TBU 30

	Pitch 30 mm	
▪ Recommended drive sprockets	12 teeth	PCD = 117.1 mm
▪ Minimal drive sprocket	9 teeth	PCD = 88.6 mm
▪ Minimal idler diameter	80 mm	
▪ Minimal Inside Radius	1.7 x Belt Width	

► Twenteflex TBU 40

	Pitch 40 mm	
▪ Recommended drive sprockets	12 teeth	PCD = 155.0 mm
▪ Minimal drive sprocket	9 teeth	PCD = 117.3 mm
▪ Minimal idler diameter	100 mm	
▪ Minimal Inside Radius	1.6 x Belt Width	

► Belt Support

- Advised guide rail and belt support material is Ultra High Density Poly Ethylene [PE-1000] for applications where the rails will not be exposed to temperatures over 80 degrees Celsius.
- Belt support rails should be placed at least every 300 to 400 mm depending on the belt load.

► General Recommendations

- Provide a take-up area after the drive section to absorb temperature and wear length differences.
- It is recommended to keep the belt speed under 15 m/min if possible.
  Altough it is possible to run faster, be aware that higher speeds will reduce the life time of belt, drive sprockets and support rails due to wear, especially in dry environments.
- Use flanged rollers on all shafts other then the drive shaft
- Mount support rollers on all shafts at least every 250 to 300 mm.
- Provide a slot in the conveyor design for easy assembling/disassembling of the connector rod.
- Provide a hold down rail at the outside belt edge to prevent the belt from flipping up.
- Due to the design of this belt there is a possibility that links can lock themselves in a tented position while pulling in the belt. This situation can only happen when links are bent in collapsed condition.
  Please check the complete belt after fitting it and remove any such tents before operating the belt.
  This tenting of links can not occur in operating condition because links are always extended when bent around rollers.

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