ANGLE-FLO®

ANGLE MERGE BELT CONVEYORS

PORTEC Flomaster®

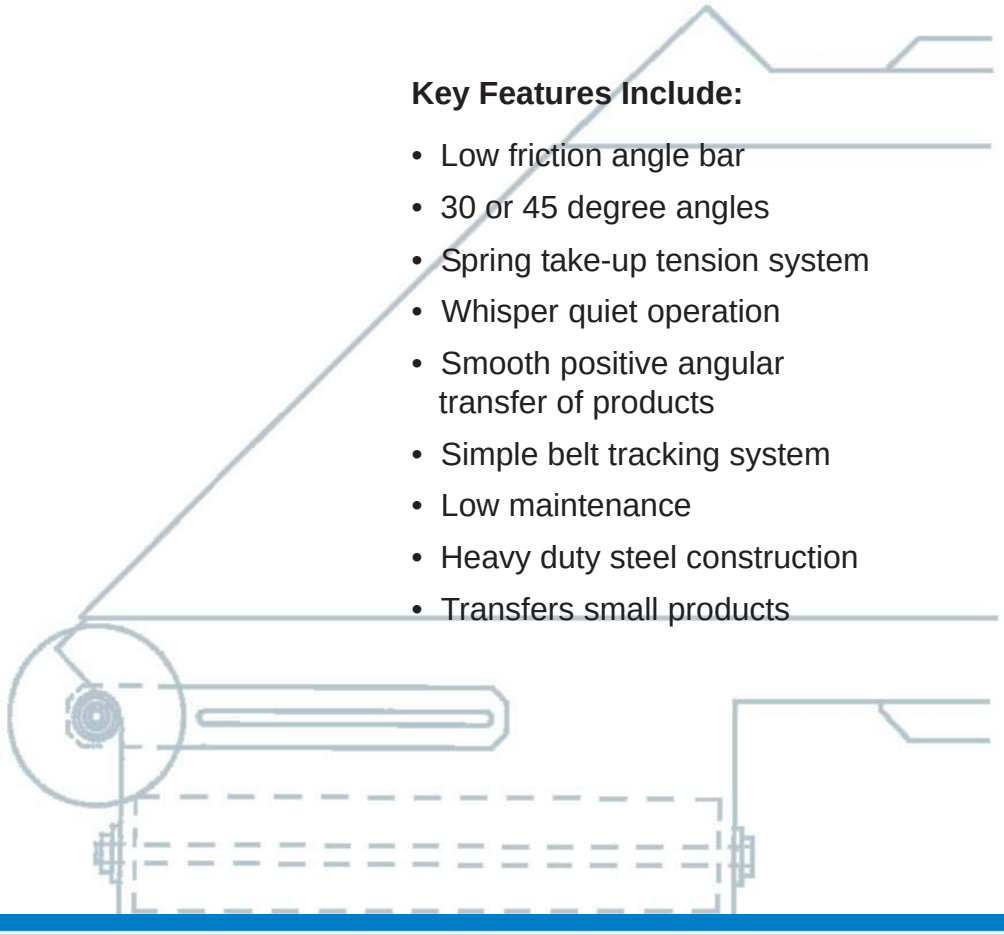
MERGING DIVERGING OPERATIONS

For merging or diverging operations, Portec has what you're looking for...

Portec Flomaster Angle-Flo Conveyors facilitate the merging or diverging of two conveyor lines in a smooth and efficient manner. The Angle-Flo is available in an airless version for slow and medium speeds or intermittant high speed operation and an air bar version for heavy duty applications or high sustained speeds.

Key Features Include:

- Low friction angle bar
- 30 or 45 degree angles
- Spring take-up tension system
- Whisper quiet operation
- Smooth positive angular transfer of products
- Simple belt tracking system
- Low maintenance
- Heavy duty steel construction
- Transfers small products

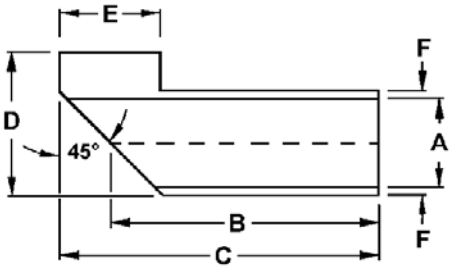


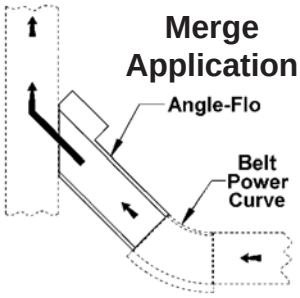
MERGE MODEL DIMENSIONS

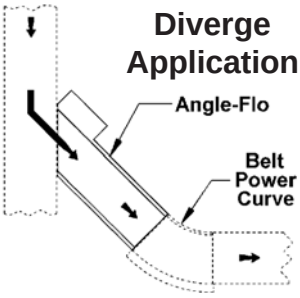
45° Models	A	B	C	D	E	F	Gear-in 1 rpm=mm	Frame Height
330AXL788-45°	254	788	981	569	341	330	329	178
686AXL965-45°	610	965	1336	925	696	686	329	178
737AX1042-45°	661	1042	1438	983	747	737	489	216
1092AX1524-45°	1016	1524	2098	1339	1103	1092	489	216
991AXH1524-45°	915	1524	2048	1237	1001	991	648	305
1600AXH2286-45°	1524	2286	3114	1847	1611	1600	648	305

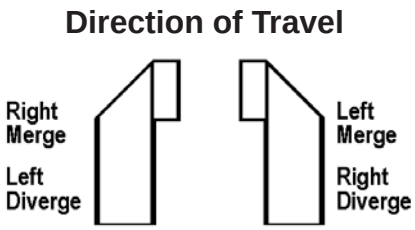
30° Models	A	B	C	E	F	Gear-in 1 rpm=mm	Frame Height
330AXL945-30°	254	945	1279	341	330	329	178
686AXL1253-30°	610	1253	1895	696	686	329	178
737AX1511-30°	661	1511	2196	747	737	489	216
1092AX1819-30°	1016	1819	2787	1103	1092	489	216
991AXH1928-30°	915	1928	2834	1001	991	648	305
1600AXH2456-30°	1524	2456	3889	1611	1600	648	305

Note: The above dimensions are for **Merge** units only and represent the shortest length for the conveying width. Diverge units are typically longer. Call the factory for minimum lengths for diverge units. The above models are examples that show the narrowest and widest conveying widths for each frame height.









Conveyor Belt: 2-ply Black Urethane with very low friction bottom fabric bottom and vulcanized endless seam. Fire retardent

Belt Drive System: The conveyor belt is driven by its bottom side contacting a heavy duty lagged drive roll. Contamination of the belt surface does not effect the conveyor operation. A spring-loaded take-up maintains even belt tension even with changes in loading and temperature.

Angle Bar: The Angle-Flo uses a polished steel bar on the angle end of the conveyor. The fixed angle bar ensures even belt tracking and may be positioned as close as 4 mm from the adjoining conveyor. The Angle-Flo is available with angles of 30 and 45 degrees.

End, Take-up, Snub and Return Rolls: The all-steel rolls are fabricated from 51 mm (low frame), 63.5 mm (mid-frame) and 88.9 mm (high frame) diameter tubing. The end and take-up rolls have center crowns. The end roll is normally positioned so the front face of the roller is 6.4 mm past the end of the conveyor frame. It may be adjusted so the roller is 12 mm from the end of the frame to as much as 38 mm (high frame) extended past the end of the frame. If the end roll position is adjusted, it is necessary to readjust the belt tension by repositioning the take-up roll.

Drive Roll: The drive roll is fabricated from 101 mm (low frame), 152 mm (mid-frame) or 203 mm (high frame) diameter steel tubing. The drive lagging is molded onto the steel rolls and machined to provided a friction surface.

Roll Shafts: Turned, ground and polished 1045 steel.

Bearings: The drive roll bearings are precision, sealed-for-life, and fitted in a externally mounted, cast iron flange bearing. The end roll, take-up and snub rolls have internal bearings.The high frame Angle-Flo may be ordered with all external bearings as an option.

Return Rolls: The returning belt is supported by cylindrical steel rollers with precision ball bearings and a 11.1 mm hex steel shaft.

Sideguards: Standard sideguards are fabricated from 14 gauge steel. Sideguards over 150 mm height will have a 19 mm outward facing top flange. The distance between the sideguards is 76 mm wider than the exposed belt width. Sideguard height is measured from the top of the slider bed.

Paint: Angle-Flo conveyors are normally painted with a DTM (direct to metal) paint in one of five standard colors. Check the Portec Paint Policy for a wide range of optional colors and paint types.

Optional Angle Air Bar System: The optional Angle Air Bar system from Portec is designed for heavy duty applications and sustained high speed operation up to 4 m/sec. Compressed air is released through a series of holes along the face of the angle bars to both cool the bars and create an air cushion for the belt. Angle-Flos with the Angle Air Bar will use “AF” in the model designation instead of “AX”.

Merge/Diverge: Angle-Flo conveyors are specifically designed for either merge or diverge operation. The number of rollers and their locations are different. They can not be converted from one to another. The diverge model generally has a longer minimum length than the merge model.