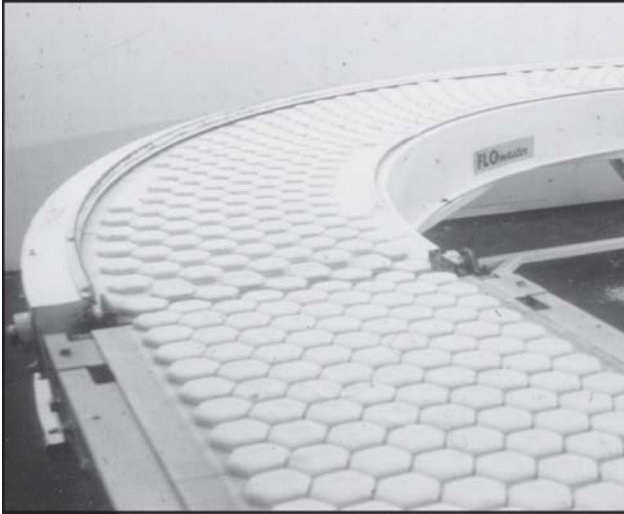


PORTEC SL

BELT POWER CURVES



SMOOTH • SMALL PRODUCT • HANDLING



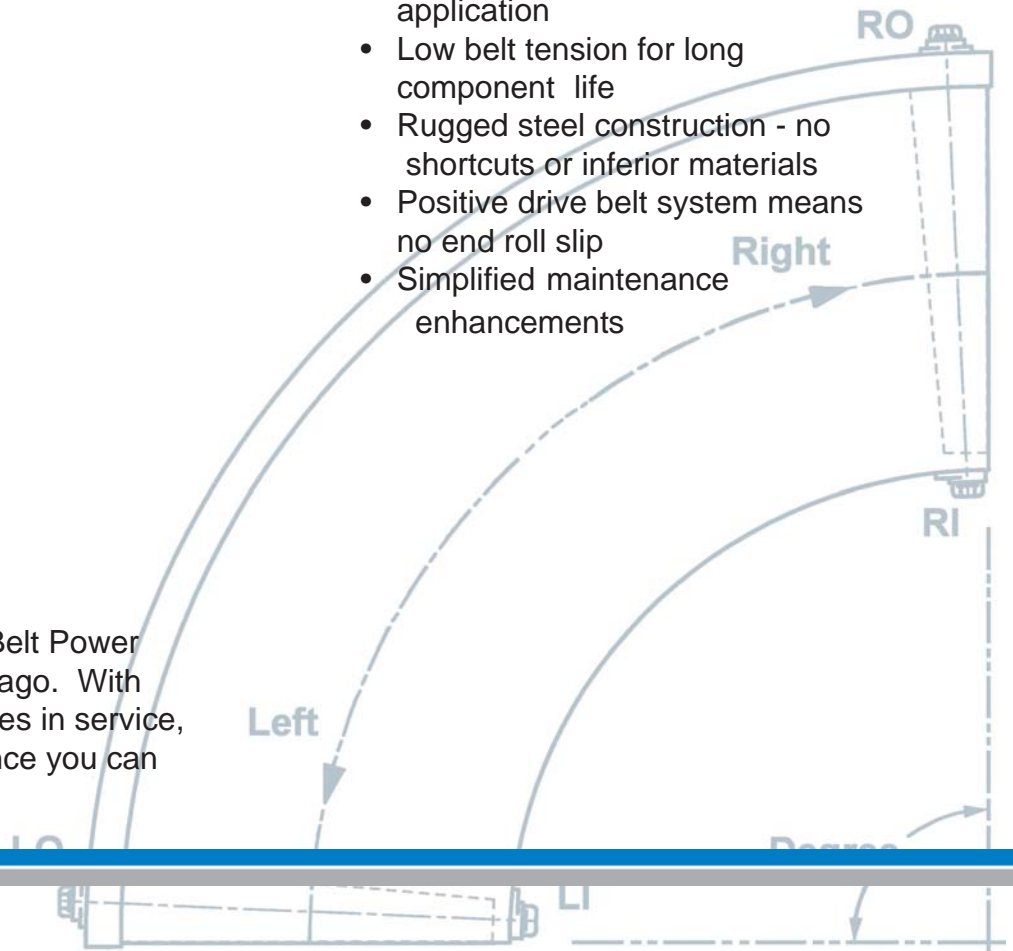
You Need a Belt Power Curve...

For Reliable Small Product Conveying!

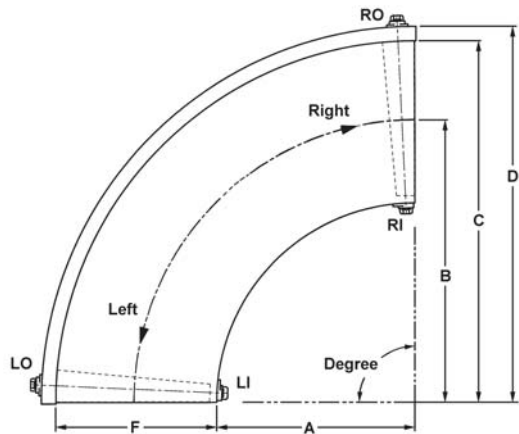
Proven Portec Technology

- Smooth product transfers
- Low noise operation
- Complies with latest safety and sanitary standards
- Wide conveying widths available
- Custom designed for your specific application
- Low belt tension for long component life
- Rugged steel construction - no shortcuts or inferior materials
- Positive drive belt system means no end roll slip
- Simplified maintenance enhancements

Portec invented the Belt Power Curve over 50 years ago. With over 70,000 belt curves in service, we have the experience you can depend upon.



Standard Model Dimensions



LO, LI, RO, RI represent potential drive shaft locations

Standard Features

Conveyor drive system: Positive-drive precision sidebow chain is attached to the edge of the conveyor belt to both drive and track the belt

Belt drive chain: #50 sidebow steel chain with belt attachment links; design load 640 lbs.; ultimate strength 5420 lbs.; optional nickel plated chain for special applications

Conveyor belt: 2-ply Black PVC-OP or 2-ply Black Nitrile; a wide range of optional belt materials available; laced belt seams are standard, vulcanized endless seams are optional

Frame construction: Welded 10 gauge painted steel (some smaller models use 12 gauge steel); stainless steel/washdown construction for special applications

End roll sprockets: 17 tooth steel beveled-tooth sprockets to match #50 sidebow chain. Stainless steel or hardened tooth sprockets are available as an option.

End roll shafts: Turned, ground and polished 1045 or 1144 stress-proof steel

End roll bearings: Precision, sealed for life, and fitted in a cast iron housing. Grease fitting for the self-aligning feature. Nickel-plated housings are available as an option.

End rolls: Fabricated, all-steel rolls using spun-formed shells and weldable cast steel hubs. No lagging is required. Stainless steel or solid plastic rolls are available as an option. At Portec's option, a solid steel end roll with integral shaft may be provided.

Return wheels: Rubber covered wheels with precision ball bearings are positioned along a steel shaft or on hanger brackets.

Sideguards: 14 gauge steel is standard. 12 gauge steel is optional. Sideguards over 6" high have a .75" angled out top flange. If no sideguards are requested, a 2" sideguard will be provided on the outside radius of the conveyor.

Paint: DTM (direct to metal) paint in 5 colors. A wide range of optional colors and paint types are available.

MODEL NUMBERS **	CONSTANT DIMENSIONS	Inside Radius A	Conveying Centerline B	Conveying Width F	End Roll Dia.* @ Centerline with belt	Gear-In 1 rpm=fpm
"LT" Belt Curve Family (5-15" conveying width)						
22LT5	C=27"	22	24.5	5	2.87	.735
20LT7	D=30.5"	20	23.5	7	2.76	.705
16LT11	Frame Ht.=7"	16	21.5	11	2.53	.645
12LT15	Std. Shaft Dia.=1"	12	19.5	15	2.3	.585
"LN" Belt Curve Family (7-19" conveying width)						
30LN7	C=37"	30	33.5	7	2.93	.751
26LN11	D=40.5"	26	31.5	11	2.76	.706
22LN15	Frame Ht.=7"	22	29.5	15	2.59	.661
18LN19	Std. Shaft Dia.=1"	18	27.5	19	2.42	.616
"LA" Belt Curve Family (7-25" conveying width)						
40LA7	C=47"	40	43.5	7	3.04	.778
36LA11	D=50.5"	36	41.5	11	2.9	.742
28LA19	Frame Ht.=7"	28	37.5	19	2.63	.671
22LA25	Std. Shaft Dia.=1"	22	34.5	25	2.42	.617
"LB" Belt Curve Family (7-37" conveying width)						
52LB7	C=59"	52	55.5	7	3.12	.799
44LB15	D=62.5"	44	51.5	15	2.9	.741
32LB27	Frame Ht.=7"	32	45.5	27	2.57	.655
28LB31	Std. Shaft Dia.=1-3/16"	28	43.5	31	2.46	.626
22LB37		22	40.5	37	2.29	.583
"LC" Belt Curve Family (7-49" conveying width)						
80LC7	C=87"	80	83.5	7	3.22	.826
62LC25	D=90.5"	62	74.5	25	2.88	.737
50LC37	Frame Ht.=7"	50	68.5	37	2.65	.678
48LC39	Std. Shaft Dia.=1-3/16"	48	67.5	39	2.61	.668
38LC49		38	62.5	49	2.43	.618

* End roll diameter at conveying centerline including belt thickness of .11".

Notes:

Conveying width (F) is equivalent to the "between sideguards" (BSG) width or "between frame" (BF) width. The exposed belt width is approximately 1/2" narrower than the nominal conveying width (F).

The outside radius frame, chain cover and both sideguards extend 3/8" past the true angle at both ends of the conveyor. The inside radius frame length matches the true angle.

Standard Models

The above list is only a small example of the model sizes available from Portec. There are 5 standard family sizes of Portec Belt Power Curves based upon the outside conveying radius (C) and a range of conveying widths (F). Any conveying width within the available range and having one of the 5 standard outside conveying radii, would be considered a standard model. While Portec frequently designs and builds special radius belt curves, the standard models represent the best value and shortest production lead-time.

Application Specials

Portec Flomaster can design and build the Belt Power Curve to meet your special application requirements. Special radius and food-grade stainless steel designs are just a few of the many possible specials that Flomaster will do to meet your needs. Portec belt curves are available in a wide range of angles up to 350 degrees.