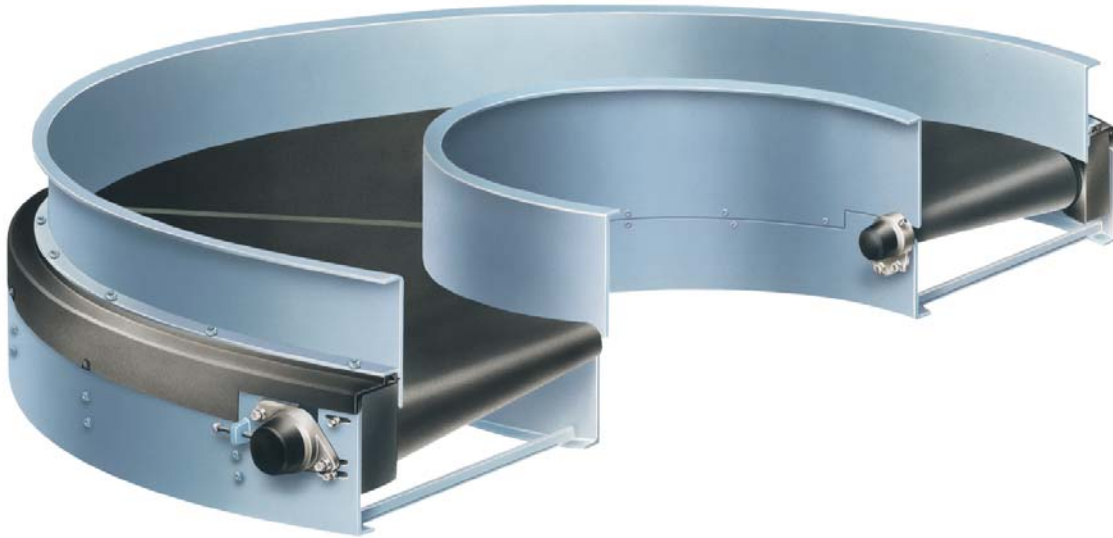


PORTEC SG

BELT POWER CURVES

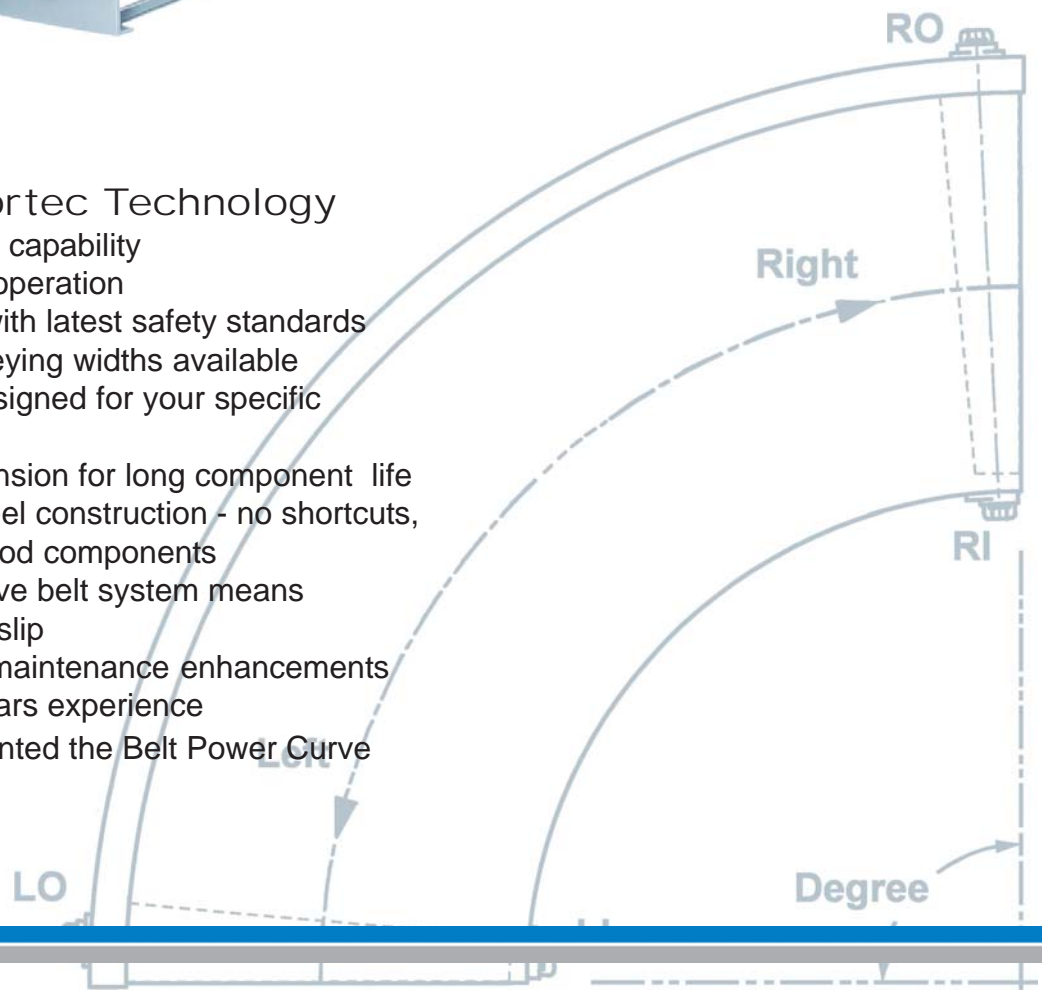


PERFORMANCE • SIMPLICITY • RELIABILITY

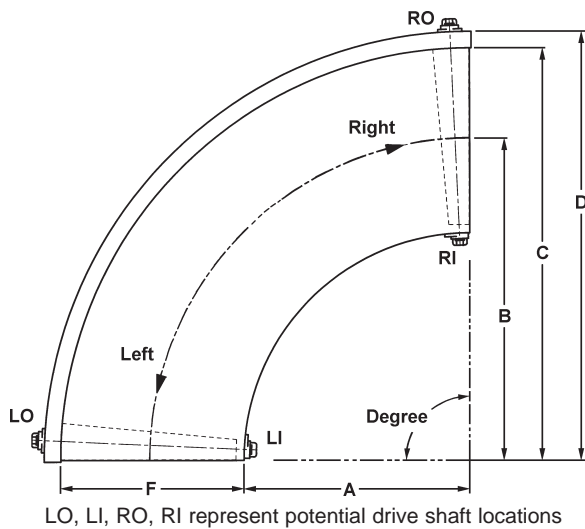


Proven Portec Technology

- High speed capability
 - Low noise operation
 - Complies with latest safety standards
 - Wide conveying widths available
 - Custom designed for your specific application
 - Low belt tension for long component life
 - Rugged steel construction - no shortcuts, such as wood components
 - Positive drive belt system means no end roll slip
 - Simplified maintenance enhancements
 - Over 50 years experience
- Portec invented the Belt Power Curve



Standard Model Dimensions



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; 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: 27 or 40 tooth steel beveled-tooth sprockets to match #50 sidebow chain. Models with a stainless steel frame use 30 or 40 tooth sprockets. 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.

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	Gear-In 1 rpm=ft
"A" Belt Curve Family (7-25" conveying width)						
40A7	C=47" D=50.5"	40	43.5	7	4.79	1.24
36A11		36	41.5	11	4.58	1.18
32A15	Frame Ht.=8.5"	32	39.5	15	4.36	1.12
28A19		28	37.5	19	4.14	1.07
26A21		26	36.5	21	4.03	1.04
24A23	Std. Shaft Dia.=1"	24	35.5	23	3.92	1.01
22A25		22	34.5	25	3.82	.98
"B" Belt Curve Family (7-37" conveying width)						
52B7	C=59" D=62.5"	52	55.5	7	4.92	1.27
44B15		44	51.5	15	4.57	1.18
40B19	Frame Ht.=8.5"	40	49.5	19	4.40	1.13
32B27		32	45.5	27	4.05	1.04
28B31		28	43.5	31	3.87	1.00
26B33	Std. Shaft Dia.=1-3/16"	26	42.5	33	3.78	.97
22B37		22	40.5	37	3.61	.93
"C" Belt Curve Family (7-39.38" conveying width)						
80C7	C=87" D=90.5"	80	83.5	7	5.08	1.31
74C13		74	80.5	13	4.90	1.27
68C19	Frame Ht.=8.5"	68	77.5	19	4.72	1.22
62C25		62	74.5	25	4.54	1.17
56C31		56	71.5	31	4.36	1.12
50C37	Std. Shaft Dia.=1-7/16"	50	68.5	37	4.18	1.08
48C39		48	67.5	39	4.12	1.06
"HC" Belt Curve Family (39.39-49" conveying width)						
46HC41	C=87" D=90.5"	46	66.5	41	5.99	1.55
44HC43		44	65.5	43	5.90	1.53
42HC45	Frame Ht.=12"	42	64.5	45	5.81	1.50
40HC47		40	63.5	47	5.72	1.48
38HC49		38	62.5	49	5.63	1.46

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

Note: Conveying width (F) is equivalent to the "between sideguard" (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 4 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.