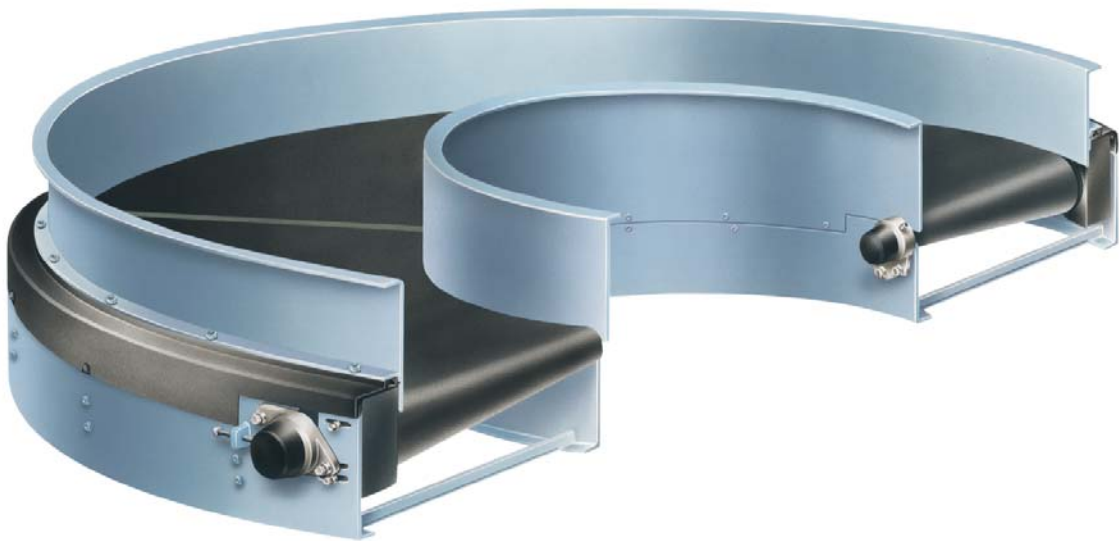


PORTEC SG

BELT POWER CURVES

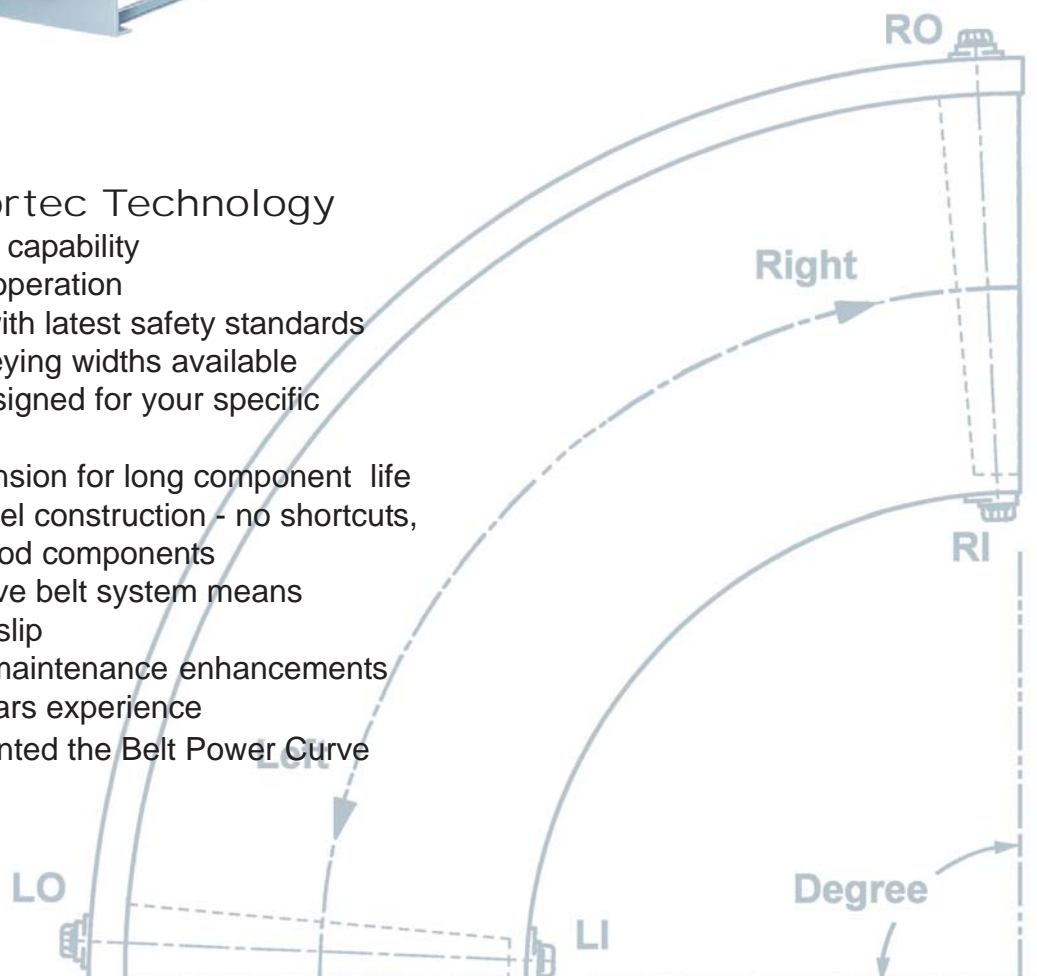


PERFORMANCE • SIMPLICITY • RELIABILITY

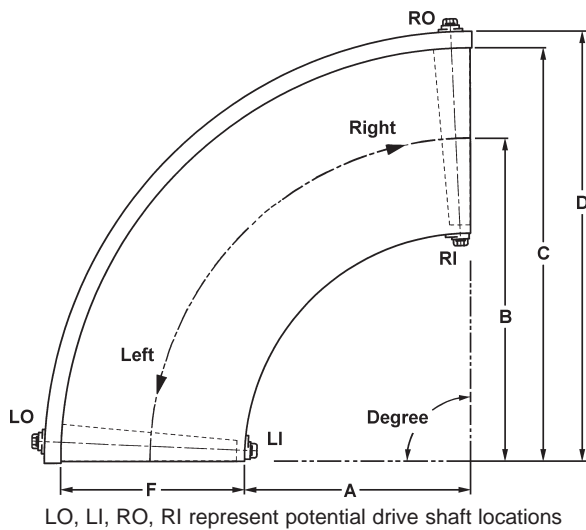


Proven Portec Technology

- 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 290 kg.; ultimate strength 2459 kg.; 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 3.42 mm painted steel (some smaller models use 2.65 mm 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: 1.89 mm steel is standard. 2.65 mm steel is optional. Sideguards over 150 mm high have a 19 mm angled out top flange. If no sideguards are requested, a 51 mm sideguard will be provided on the outside radius of the conveyor. Sideguard height is measured from the top of the slider bed.

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= mm
"A" Belt Curve Family (200-635 conveying width)						
1000M200	C-1200 D=1289	1000	1100	200	121	373
900M300		900	1050	300	115	356
800M400	Frame Ht.=216	800	1000	400	110	339
750M450		750	975	450	107	331
700M500	Std. Shaft Dia.=25	700	950	500	104	322
600M600		600	900	600	99	305
565M635		565	882.5	635	97	299
"B" Belt Curve Family (200-940 conveying width)						
1300M200	C=1500 D=1589	1300	1400	200	124	384
1150M350		1150	1325	350	117	363
1000M500	Frame Ht.=216	1000	1250	500	111	343
850M650		850	1175	650	104	322
750M750	Std. Shaft Dia.=30	750	1125	750	100	308
675M825		675	1087.5	825	97	298
560M940		560	1030	940	92	282
"C" Belt Curve Family (200-1000 conveying width)						
2000M200	C=2200 D=2289	2000	2100	200	128	398
1825M375		1825	2012.5	375	123	381
1700M500	Frame Ht.=216	1700	1950	500	119	369
1575M625		1575	1887.5	625	116	357
1450M750	Std. Shaft Dia.=35	1450	1825	750	112	346
1375M825		1375	1787.5	825	110	338
1200M1000		1000	1700	1000	104	322
"HC" Belt Curve Family (1001-1235 conveying width)						
1170HM1030	C=2200 D=2289	1170	1685	1030	152	473
1120HM1080		1120	1660	1080	150	466
1070HM1130	Frame Ht.=305	1070	1635	1130	148	459
1000HM1200		1000	1600	1200	145	449
965HM1235	Std. Shaft Dia.=35	965	1582.5	1235	143	444

* End roll diameter at conveying centerline including belt thickness of 2.8 mm.

Note: Conveying width (F) is equivalent to the "between sideguard" (BSG) width or "between frame" (BF) width. The exposed belt width is approximately 12 mm narrower than the nominal conveying width (F).

The outside radius frame, chain cover and both sideguards extend 9.5 mm 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.