

SPIRAL CURVE

SPIRAL BELT CONVEYORS



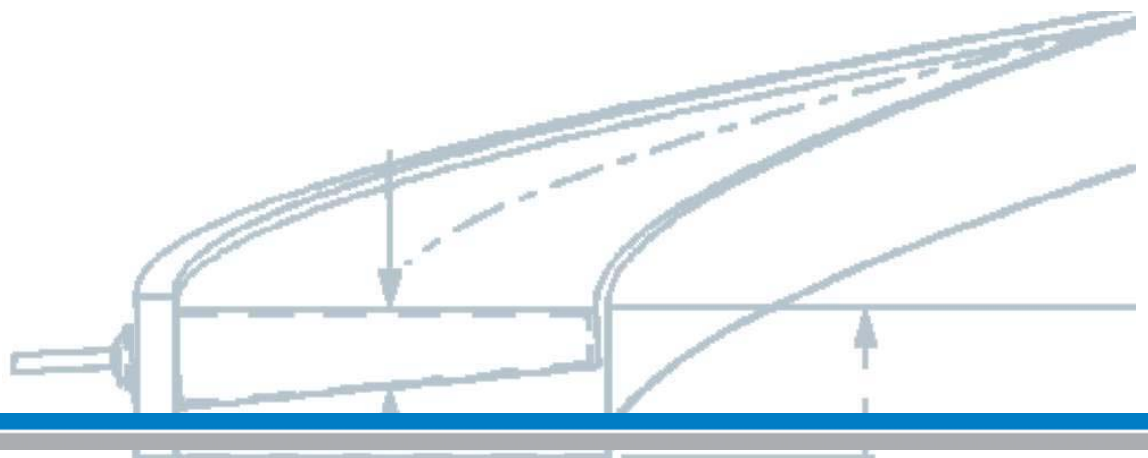
ELEVATION AND DIRECTIONAL UNIT HANDLING



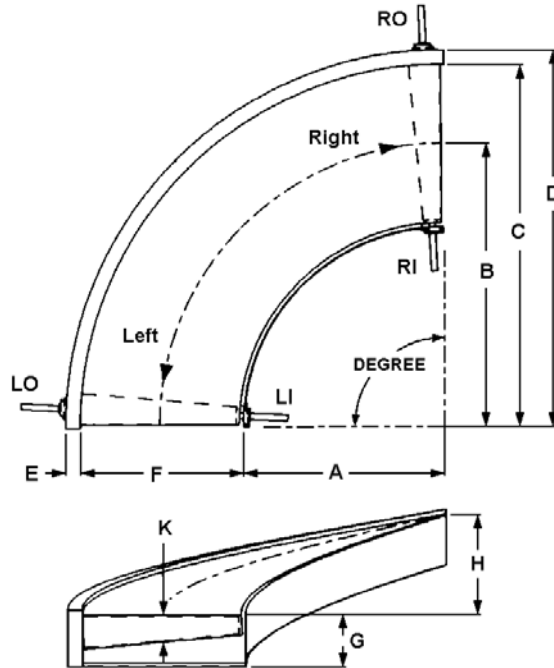
Getting up and around made easy...

Proven Portec Technology

- High speed capacity
- Low noise operation
- Positive drive belt system means no end roll slip
- Rugged steel construction
- Low belt tension for long component life
- Wide conveying widths available
- Simplified maintenance enhancements
- Complies with latest safety standards
- Over 45 years experience
Portec invented the Spiral Curve



Standard Model Dimensions



Model Numbers**	Constant Dimensions	Inches/mm				
		A	B	F	K*	H/90°
18LT9SP	C-27	18	22.5	9	2.92	12
16LT11SP	D-30.5	16	21.5	11	2.81	12
14LT13SP	E-3.5	14	20.5	13	2.69	12
12LT15SP	G-7	12	19.5	15	2.60	12
28LN9SP	C-37	28	32.5	9	3.13	15
26LN11SP	D-40.5	26	31.5	11	3.04	15
24LN13SP	E-3.5	24	30.5	13	2.96	15
22LN15SP	G-7	22	29.5	15	2.87	15
20LN17SP		20	28.5	17	2.78	15
32A15SP	C-47	32	39.5	15	4.63	26
30A17SP	D-50.5	30	38.5	17	4.52	26
28A19SP	E-3.5	28	37.5	19	4.41	20
26A21SP	G-8.5	26	36.5	21	4.30	20
24A23SP		24	35.5	23	4.20	20
22A25SP		22	34.5	25	4.09	20
36B23SP	C-59	36	47.5	23	4.49	26
34B25SP	D-62.5	34	46.5	25	4.41	26
32B27SP	E-3.5	32	45.5	27	4.32	26
30B29SP	G-8.5	30	44.5	29	4.23	20
28B31SP		28	43.5	31	4.14	20
26B33SP		26	42.5	33	4.06	20
24B35SP		24	41.5	35	3.97	20
22B37SP		22	40.5	37	3.88	20
68C19SP	C-87	68	77.5	19	5.00	50
66C21SP	D-90.5	66	76.5	21	4.94	50
64C23SP	E-3.5	64	75.5	23	4.87	50
62C25SP	G-8.5	62	74.5	25	4.81	46
60C27SP		60	73.5	27	4.75	46
58C29SP		58	72.5	29	4.69	46
56C31SP		56	71.5	31	4.63	46
54C33SP		54	70.5	33	4.57	46
52C35SP		52	69.5	35	4.51	41
50C37SP		50	68.5	37	4.45	41
48C39SP		48	67.5	39	4.39	41
46C41SP	C-87	46	66.5	41	6.26	36
44C43SP	D-90.5	44	65.5	43	6.17	36
42C45SP	E-3.5	42	64.5	45	6.08	36
40C47SP	G-12	40	63.5	47	5.99	36
38C49SP		38	62.5	49	5.90	36

Standard Models

The above list is only a small example of the model sizes available from Portec. There are 6 standard family sizes of Spiral Curve based upon the outside conveying radius (C) and a range of conveying widths (F). Any conveying width with the available range and having one of the 5 standard outside conveying radii, is considered a standard model. While Portec frequently designs and builds special radius Spiral Curves, the standard models represent the best value and shortest production lead-time.

* End roll diameter at conveying centerline including belt thickness of .25".

Note: Conveying width (F) is equivalent to the "between sideguards" (BSG) width. The exposed belt width is approximately 1" narrower than the nominal conveying width (F).

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

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 SBR-Rough Top; a wide range of optional belt materials available; laced belt seams

Frame construction: Welded 12 gauge painted steel; stainless steel/washdown construction for special applications; models with a stainless steel frame may have a different frame height

End roll sprockets: Steel beveled-tooth sprockets to match #50 sidebow chain. 17, 27 or 40 tooth sprockets are used, depending upon the conveyor frame height. Models with a stainless steel frame use 21, 24, 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 12" high have a 1" angled out top flange. The height is measured perpendicular to the top surface of the slider bed. If no sideguards are requested, a 2" high 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.