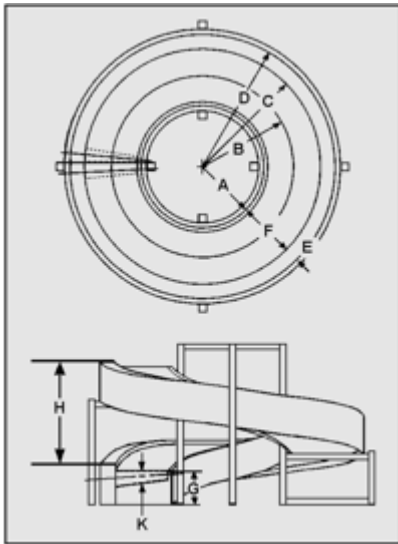


# Portec Spiral-Lift Technical Specifications



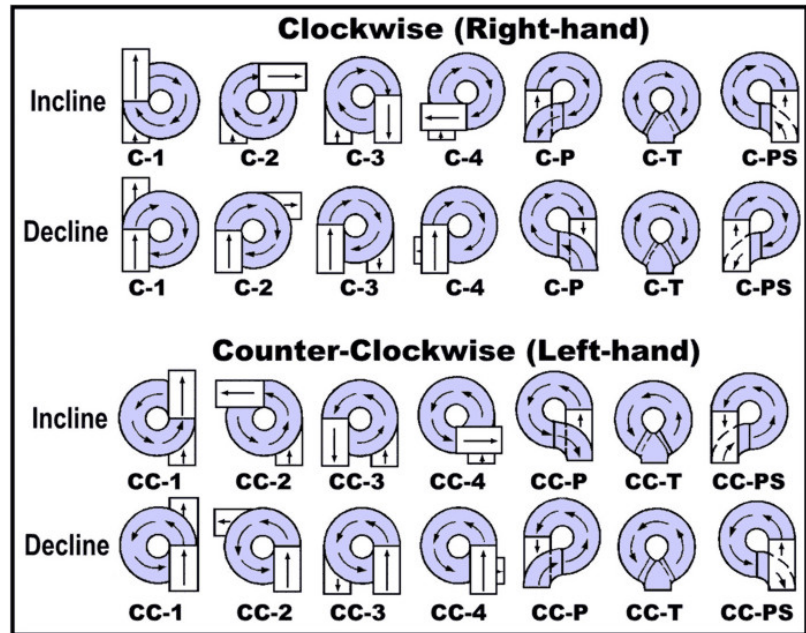
## Positive Drive Belt System

The conveyor belt is positively driven by a shaft mounted sprocket engaging a precision sidebow chain which is attached directly to the outside edge of the belt. This positive drive system is unaffected by changes in loading, tension, temperature, humidity, and foreign material on the belt. The Portec positive drive belt system ensures continuous, reliable operation even in harsh and difficult environments with minimal maintenance.

## Standard Models

The list below is only a small example of the model sizes available from Portec. There are 6 standard family sizes of Spiral-Lift 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-Lifts, the standard models represent the best value and shortest production lead-time.

## Standard Model Configurations



Model Numbers	Constant Dimensions	Inside Radius A	Conveying Centerline B	Conveying Width F	End Roll Dia.* K*	Max. Elevation per 360° H
---------------	---------------------	-----------------	------------------------	-------------------	-------------------	---------------------------

**"LT" Spiral Curve Family (9" - 15" conveying width; standard 1" shaft)**

18LT9SP	C-27" D-30.5" E-3.5" G-7"	18"	22.5"	9"	2.92"	48"
16LT11SP		16"	21.5"	11"	2.81"	48"
14LT13SP		14"	20.5"	13"	2.69"	48"
12LT15SP		12"	19.5"	15"	2.58"	48"

**"LN" Spiral Curve Family (9" - 17" conveying width; standard 1" shaft)**

28LN9SP	C-37" D-40.5" E-3.5" G-7"	28"	32.5"	9"	3.13"	60"
26LN11SP		26"	31.5"	11"	3.04"	60"
24LN13SP		24"	30.5"	13"	2.96"	60"
22LN15SP		22"	29.5"	15"	2.87"	60"
20LN17SP		20"	28.5"	17"	2.78"	60"

**"A" Spiral Curve Family (15" - 25" conveying width; standard 1" shaft)**

32A15SP	C-47" D-50.5" E-3.5" G-8.5"	32"	39.5"	15"	4.63"	104"
32A17SP		30"	38.5"	17"	4.52"	104"
32A19SP		28"	37.5"	19"	4.41"	80"
32A21SP		26"	36.5"	21"	4.30"	80"
32A23SP		24"	35.5"	23"	4.20"	80"
32A25SP		22"	34.5"	25"	4.09"	80"

**"B" Spiral Curve Family (23" - 37" conveying width; standard 1-3/16" shaft)**

36B23SP	C-47" D-50.5" E-3.5" G-8.5"	36"	47.5"	23"	4.49"	104"
34B25SP		34"	46.5"	25"	4.41"	104"
32B27SP		32"	45.5"	27"	4.32"	80"
30B29SP		30"	44.5"	29"	4.23"	80"
28B31SP		28"	43.5"	31"	4.14"	80"
26B33SP		26"	42.5"	33"	4.06"	80"
24B35SP		24"	41.5"	35"	3.97"	80"
22B37SP		22"	40.5"	37"	3.88"	80"



Model Numbers	Constant Dimensions	Inside Radius A	Conveying Centerline B	Conveying Width F	End Roll Dia.* K*	Max. Elevation per 360° H
---------------	---------------------	-----------------	------------------------	-------------------	-------------------	---------------------------

<b>"C" Spiral Curve Family (19" - 39" conveying width; standard 1-7/16" shaft)</b>						
68C19SP	C-87" D-90.5" E-3.5" G-8.5"	68"	77.5"	19"	5.00"	200"
68C21SP		66"	76.5"	21"	4.94"	200"
64C23SP		64"	75.5"	23"	4.88"	200"
62C25SP		62"	74.5"	25"	4.81"	184"
60C27SP		60"	73.5"	27"	4.75"	184"
58C29SP		58"	72.5"	29"	4.69"	184"
56C31SP		56"	71.5"	31"	4.63"	184"
54C33SP		54"	70.5"	33"	4.57"	184"
52C35SP		52"	69.5"	35"	4.51"	164"
50C37SP		50"	68.5"	37"	4.45"	164"
48C39SP		48"	67.5"	39"	4.39"	164"

<b>"HC" Spiral Curve Family (41" - 49" conveying width; standard 1-11/16" shaft)</b>						
46HC41SP	C-87" D-90.5" E-3.5" G-12"	46"	66.5"	41"	6.26"	144"
44HC43SP		44"	65.5"	43"	6.17"	144"
42HC45SP		42"	64.5"	45"	6.08"	144"
40HC47SP		40"	63.5"	47"	5.99"	144"
38HC49SP		38"	62.5"	49"	5.90"	144"

\*End roll diameter at conveying centerline including belt thickness of 1/4".

\*\*Additional models available. Check with factory.

**Note:** Conveying width (F) is equivalent to the "between sideguard" (BSG) width. The exposed belt width is approximately 1" 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.

