FLOW-TURN)®

The Next Generation of Turns

FLOW-TURN's Square-Turn belt curves utilize a row of cylindrical end rollers ("pucks") that replace the tapered end rolls of traditional powered belt curves. Key benefits of this design are:

Better Transfer of Product Between Conveyors
 Square-Turn curves have true parallel belt-to-belt
 transition to and from adjacent conveyors. Traditional
 belt curves have tapered end rollers with a variable
 trapezoidal gap at the transfer point.

Reduced Noise

The cylindrical end roll design also has the advantage that the belt lacing approaches the end rolls at a slight angle, reducing the slapping noise when lacing reaches a tapered pulley. In addition, the high-density plastic puck material absorbs sound better than steel pulleys.

Safer Design

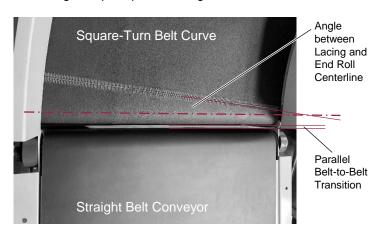
Square-Turn curves have no uneven gaps with the potential of creating unsafe pinch points that need to be covered with transfer plates.

· Easier Integration

The drive shaft is absolutely parallel to the shaft of the adjacent conveyor – with tapered rollers, the shafts are at an angle. This avoids interference between drives mounted on the inner curve, and motors are parallel and perpendicular as on a straight belt conveyor.

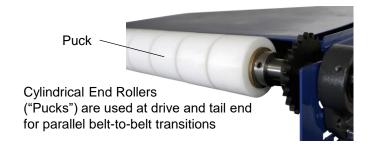
Simplified Parts Management

FLOW-TURNS's pucks are the same size, no matter what curve radius or belt width – belt curves with tapered rollers require a different end roller for each variation of radius or width. For large facilities, the savings in spare parts are significant.



Square-TurnPower Belt Curves





Square-Turn belt curves are available in various sizes, arcs, and design options. Standard puck diameters are 4", 2.5" and 2" depending on curve size. Please refer to the **Square-Turn** Datasheet.

SQUARE-TURN Applications

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- □ Package & Parcel
- □ Baggage Handling
- Warehousing & Distribution
- Food Processing
- Packaging
- Industrial & Manufacturing



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Standard Specifications

FRAME CONSTRUCTION

- 4", 2.5" or 2" Puck diameter depending on curve size (please refer to datasheet)
- Load capacity 40 lbs per linear foot (standard)
- 10 Ga standard frame construction
- · Safety Guarding per OSHA
- Finger Guards and Safety Covers
- Arcs from 15 degrees to 270 degrees; also available as spiral with an elevation change
- Enamel paint or powder coating with color per RAL or paint chip request, or stainless steel

DRIVE SYSTEM

- Shaft-mounted gearmotors or reducers with flange mounts for C-Face motors
- Normal mounting at discharge end
- Number 50 Flex Chain with Attachment links
- · Hardened Steel Sprockets

- 2-ply PVC (standard) oil, heat, grease resistant
- Ruff Top and others upon request

ACCESSORIES

- Floor Supports, H-Style with welded constraint; +/- 2" adjustment; or ceiling hangers
- Side Guards 12 and 14 Ga Steel



Square-Turn Power Belt Curves

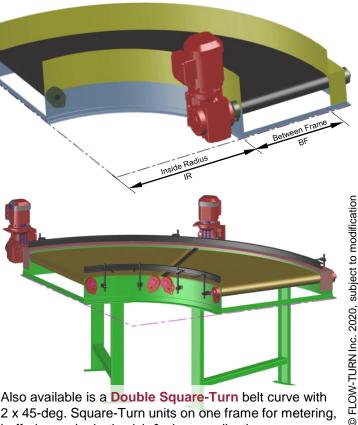
Options

FRAME

- Stainless steel, suitable for food applications
- Low Friction DuraSurf slider bed covers for heavy loading; Bed Relief Rollers for extra heavy loads
- Under Guards in Plastic or Steel Mesh or full Metal
- Removable Inside Radius Frame for Endless Belt Applications without Laced Splice
- Double Square-Turn with 2 x 45-degree curves (picture below)

DRIVE

- Integrated Gear Motors, with or without VFD's
- Inside radius mount (vertical only)
- Slave Drive between curves and adjacent conveyor BELT
- FDA & USDA approved belts available



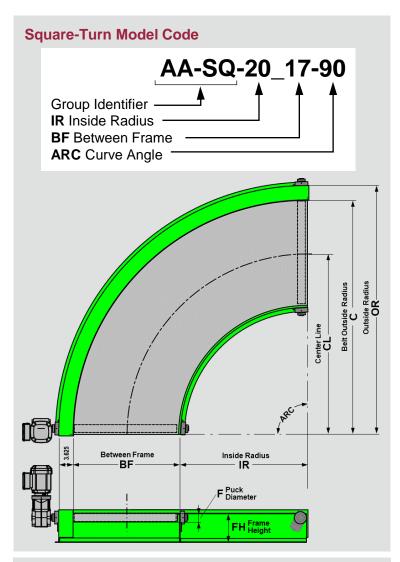
Also available is a **Double Square-Turn** belt curve with 2 x 45-deg. Square-Turn units on one frame for metering, buffering and robotic pick & place applications.



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The Next Generation of Turns

Square-TurnData Sheet



Common Dimensions an	nd Specifications
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Group Identifier	OR Outside Radius	C Belt Outside Radius
AAA-SQ	30.625"	27"
AA-SQ	40.625"	37"
A-SQ	50.625"	47"
B-SQ	62.625"	59"
C-SQ	90.625"	87"

F Puck Diameter	FH Inside Frame Height *	X Shaft Diameter	
2"	5.5"	1"	
2.5"	6"	1-3/16"	
4"	7.25"	1-7/16"	
* Outside F than Inside	rame is 0.5 Frame	" shorter	

AAA-SQ AA-SQ B-SQ	Model No. 22_5 20_7 18_9 16_11 14_13 12_15 30_7 28_9 26_11 24_13 22_15 20_17	Belt Outside Radius 27"	Inside Radius 22" 20" 18" 16" 14" 12" 30"	5" 7" 9" 11" 13"	24.5" 23.5" 22.5" 21.5" 20.5"	End-Roll Diameter 2" 2" 2" 2"
A-SQ	20_7 18_9 16_11 14_13 12_15 30_7 28_9 26_11 24_13 22_15 20_17	27"	22" 20" 18" 16" 14" 12" 30"	5" 7" 9" 11" 13"	24.5" 23.5" 22.5" 21.5"	2" 2" 2"
A-SQ	20_7 18_9 16_11 14_13 12_15 30_7 28_9 26_11 24_13 22_15 20_17		20" 18" 16" 14" 12" 30"	7" 9" 11" 13"	23.5" 22.5" 21.5"	2" 2"
AA-SQ	18_9 16_11 14_13 12_15 30_7 28_9 26_11 24_13 22_15 20_17		18" 16" 14" 12" 30"	9" 11" 13"	22.5" 21.5"	2"
A-SQ	16_11 14_13 12_15 30_7 28_9 26_11 24_13 22_15 20_17	37"	16" 14" 12" 30"	11" 13"	21.5"	
A-SQ	14_13 12_15 30_7 28_9 26_11 24_13 22_15 20_17	37"	14" 12" 30"	13"		2"
A-SQ	12_15 30_7 28_9 26_11 24_13 22_15 20_17	37"	12" 30"		20.5"	_
A-SQ	30_7 28_9 26_11 24_13 22_15 20_17	37"	30"	15"		2"
A-SQ	28_9 26_11 24_13 22_15 20_17	37"			19.5"	2"
A-SQ	26_11 24_13 22_15 20_17	31	28"	7"	33.5"	2.5" (2")
	24_13 22_15 20_17			9"	32.5"	2.5" (2")
	22_15 20_17		26"	11"	31.5"	2.5" (2")
	20_17		24"	13"	30.5"	2.5" (2")
			22"	15"	29.5"	2.5" (2")
	40.7		20"	17"	28.5"	2.5" (2")
	40_7	4=11	40"	7"	43.5"	2.5" (2")
B-SQ	38_9	47"	38"	9"	42.5"	2.5" (2")
B-SQ	36_11	[36"	11"	41.5"	2.5" (2")
B-SQ	34_13		34"	13"	40.5"	2.5" (2")
B-SQ	32_15		32"	15"	39.5"	2.5" (2")
B-SQ	30_17		30"	17"	38.5"	2.5" (2")
B-SQ	28_19		28"	19"	37.5"	2.5" (2")
B-SQ	26_21		26"	21"	36.5"	2.5" (2")
B-SQ	24_23]	24"	23"	35.5"	2.5" (2")
B-SQ	22_25		22"	25"	34.5"	2.5" (2")
B-SQ	46_13		46"	13"	52.5"	4" (2.5")
	44_15	59"	44"	15"	51.5"	4" (2.5")
	42 17		42"	17"	50.5"	4" (2.5")
	40 19		40"	19"	49.5"	4" (2.5")
I	38 21		38"	21"	48.5"	4" (2.5")
	36 23		36"	23"	47.5"	4" (2.5")
	34 25		34"	25"	46.5"	4" (2.5")
	32 27		32"	27"	45.5"	4" (2.5")
	30 29		30"	29"	44.5"	4" (2.5")
	28 31		28"	31"	43.5"	4" (2.5")
	26 33		26"	33"	42.5"	4" (2.5")
	24 35		24"	35"	41.5"	4" (2.5")
-	22 37		22"	37"	40.5"	4" (2.5")
-	20 39		20"	39"	39.5"	4" (2.5")
	62 25		62"	25"	74.5"	4" (2.5")
C-SQ	60 27	87"	60"	27"	73.5'	4" (2.5")
-			58"	29"		· ,
-	58_29		56"	31"	72.5" 71.5"	4" (2.5")
-	56_31		54"	33"		4" (2.5")
-	54_33				70.5"	4" (2.5")
F	52_35		52"	35"	69.5"	4" (2.5")
-	50_37		50"	37"	68.5"	4" (2.5")
-	48_39		48"	39"	67.5"	4" (2.5")
-	46_41		46"	41"	66.5"	4" (2.5")
-	44_43		44"	43"	65.5"	4" (2.5")
-	42_45		42"	45"	64.5"	4" (2.5")
-	40_47		40"	47"	63.5"	4" (2.5")
X-SQ	38_49		38"	49" zes Upon	62.5"	4" (2.5")

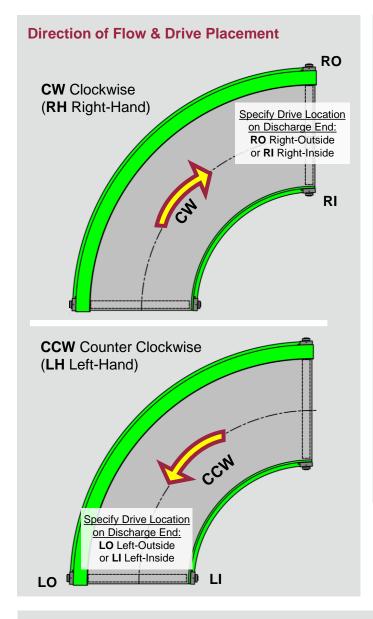
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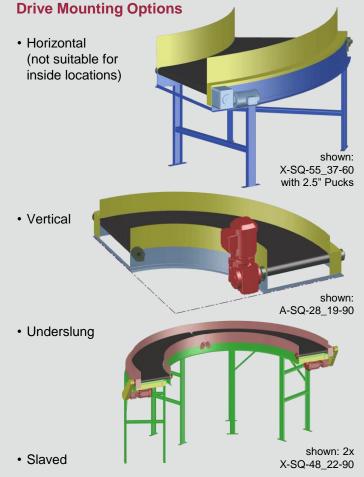
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Square-Turn Data Sheet

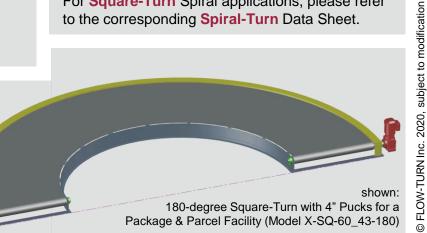




For Square-Turn Spiral applications, please refer to the corresponding **Spiral-Turn** Data Sheet.

Sizes and options given are only a small example of the power belt curves made by Flow-Turn.

Please inquire if your project requires other sizes or has special requirements.



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