



The Next Generation of Turns

# Chain-Turn Power Belt Curves

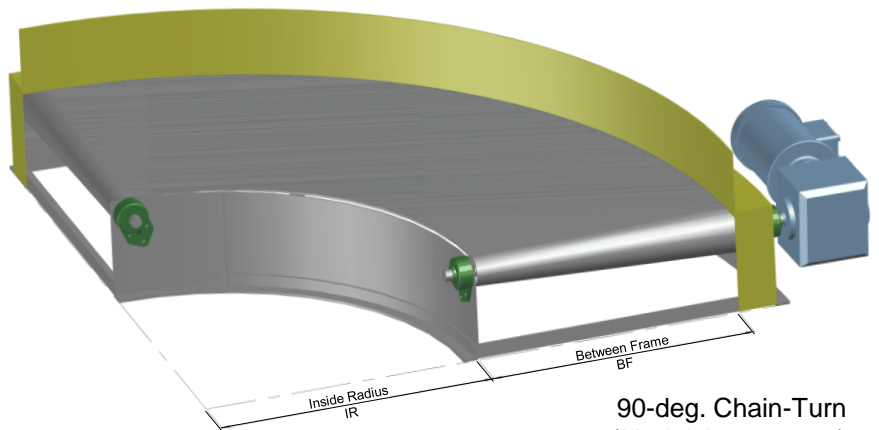


While most of FLOW-TURN's chain-driven belt curves today use the Square-Turn design with cylindrical end rolls, we still offer Chain-Turn curves with tapered pulleys for legacy and special applications.

"Narrow Turn" 180-deg. Belt Curve  
with 8" Inside Radius  
(Model X-8\_25-180)

**Chain-Turn** curves are best known for their many Know-How points:

- Loose Belt Technology
- Positive Drive (not friction drive)
- Simple, Efficient and Reliable Design
- Heavy Duty - Superior Reliability
- Flat or Spiral Configuration
- All Production in our Workshop
- Quality Production Process
- Belt Widths 4" to 120"
- Curve Arcs 15 to 270 Degrees
- Speeds 10 to 650 ft/min
- Over 100 Standard Models - many available in imperial and metric design
- Quick Delivery and Small Quantities
- Custom Design Available; e.g. Narrow Curves
- Low Maintenance
- Conforms with All Safety Requirements
- Stainless Steel Construction Available for Curves (Approved for FDA & USDA Applications)



90-deg. Chain-Turn  
(Model A-24\_23-90)

## Markets & Applications

- ☐ Package & Parcel
- ☐ Baggage Handling
- ☐ Warehousing & Distribution
- ☐ Packaging
- ☐ Industrial & Manufacturing
- ☐ Replacement Belt Market

### About FLOW-TURN

Flow-Turn Inc. is a New Jersey based manufacturer with more than 40 years of experience in the design and build of powered curve conveyors for a large variety of applications, ranging from small production systems to large industrial warehouses.

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CH Chain-Turn Rev02



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*Custom design is a FLOW-TURN specialty.  
We manufacture to rigid specifications and provide answers to unusual requirements.*



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# Chain-Turn Power Belt Curves

## Standard Specifications

### FRAME CONSTRUCTION

- 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
- Enamel paint or powder coating with color per RAL or paint chip request, or stainless steel

### DRIVE SYSTEM

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

### BELT

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

### ACCESSORIES

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

## Options

### FRAME

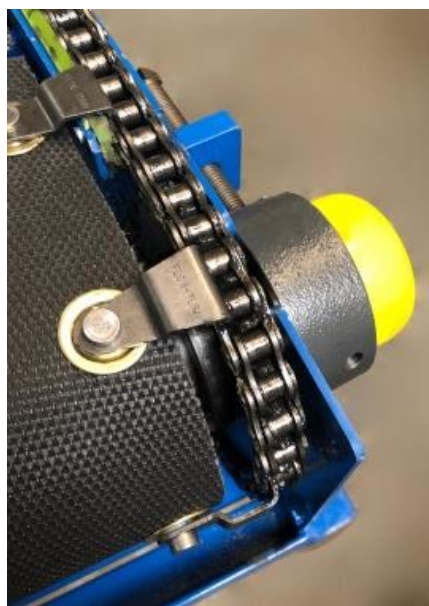
- Large Diameter tapered End Pulleys for high speed
- Stainless steel suitable for food applications
- Low Friction DuraSurf slider bed covers for heavy loading; Bed Relief Rollers for extra heavy loads
- Bottom Guards in Plastic, Steel Mesh or full Metal
- Removable inside Radius Frame for endless Belt application
- Spiral construction, elevation change per request; up to 270 degree per section

### DRIVE

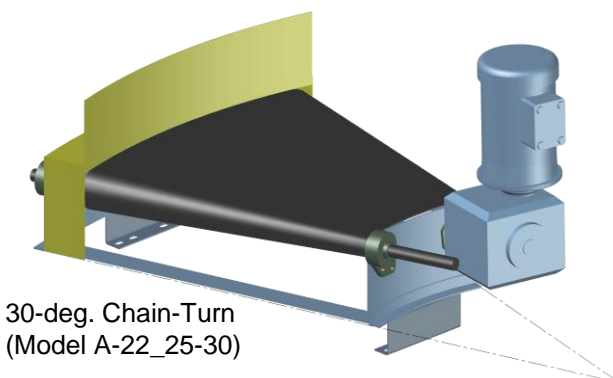
- Integrated Gear-Motors with or without VFD's
- Inside radius mount (vertical only)
- Pusher Drive, subject to confirmation by Flow-Turn
- Slave Drive between curves and adjacent conveyor

### BELT

- FDA & USDA approved white nitrile



Chain Attachment  
and Sprocket Detail



30-deg. Chain-Turn  
(Model A-22\_25-30)

Chain-Turn for Package and Parcel Applications



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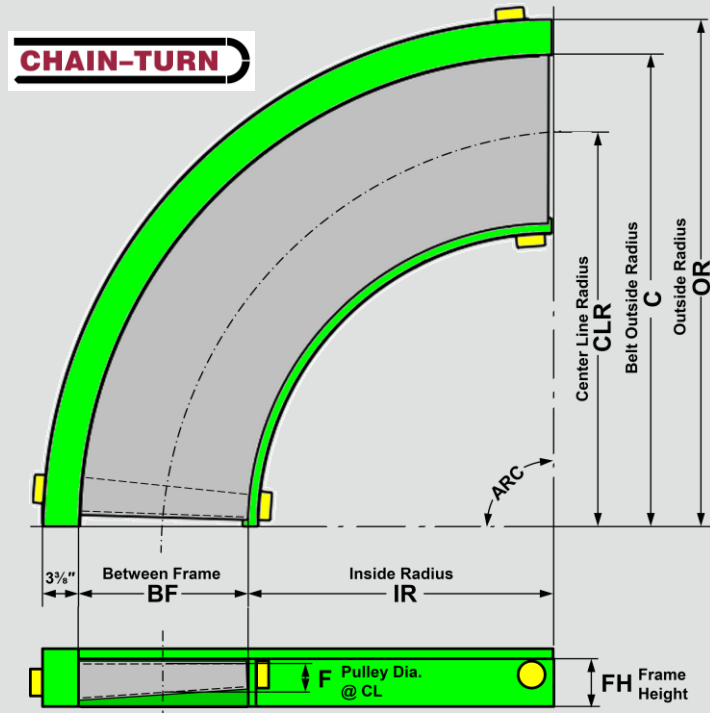
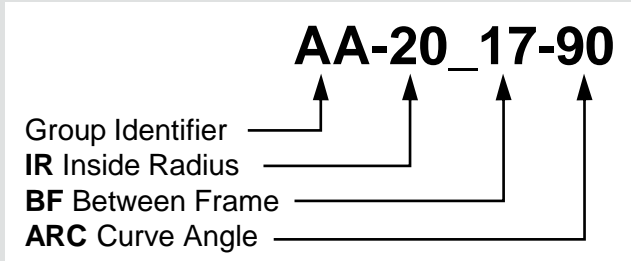


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### Chain-Turn Model Code



### Common Dimensions and Maximum Load/Speed Specifications

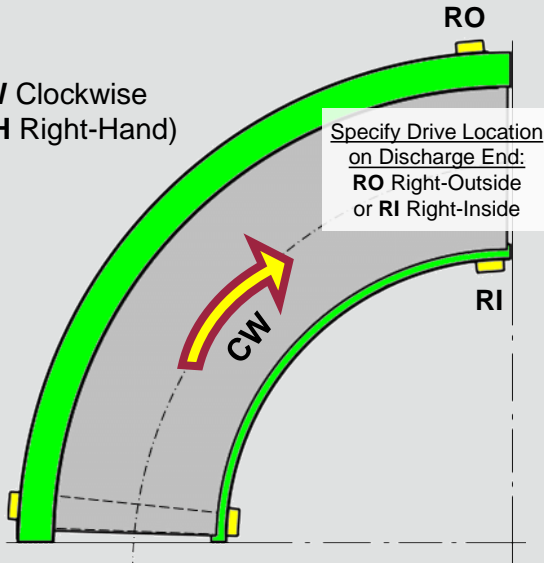
Group Identifier	OR Outside Radius	C Belt Outside Radius	FH Frame Height	X Shaft Diameter	Maximum Load * (90 deg)	Maximum Speed * (90 deg)
AAA	30.375"	27"	6.5"	1"	120 lbs	120-200 FPM
AA	40.375"	37"	6.5"	1"	170 lbs	140-200 FPM
A	50.375"	47"	6.5"	1"	200 lbs	200-250 FPM
B	62.375"	59"	8.5"	1-3/16"	230 lbs	220-550 FPM
C	90.375"	87"	8.5"	1-7/16"	350 lbs	250-600 FPM

\* Maximum Load & Maximum Speed are given for 90 degree turns; for large end rolls, multiply Maximum Load by 2

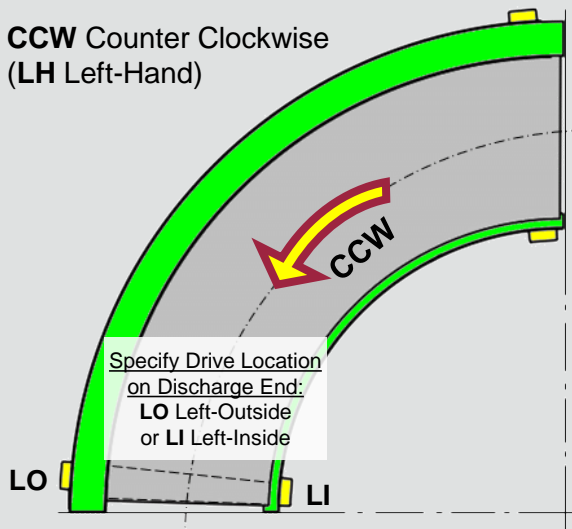
Group Identifier	Model No.	C Belt Outside Radius	IR Inside Radius	BF Between Frame	CLR Centerline Radius	F Pulley Dia. @ CL
AAA	22_5	27"	22"	5"	24.5"	3.03"
	20_7		20"	7"	23.5"	2.92"
	18_9		18"	9"	22.5"	2.81"
	16_11		16"	11"	21.5"	2.70"
	14_13		14"	13"	20.5"	2.59"
	12_15		12"	15"	19.5"	2.47"
AA	30_7	37"	30"	7"	33.5"	3.07"
	28_9		28"	9"	32.5"	2.99"
	26_11		26"	11"	31.5"	2.91"
	24_13		24"	13"	30.5"	2.82"
	22_15		22"	15"	29.5"	2.74"
	20_17		20"	17"	28.5"	2.66"
A	40_7	47"	40"	7"	43.5"	3.17"
	38_9		38"	9"	42.5"	3.10"
	36_11		36"	11"	41.5"	3.03"
	34_13		34"	13"	40.5"	2.97"
	32_15		32"	15"	39.5"	2.90"
	30_17		30"	17"	38.5"	2.84"
	28_19		28"	19"	37.5"	2.77"
	26_21		26"	21"	36.5"	2.70"
	24_23		24"	23"	35.5"	2.64"
	22_25		22"	25"	34.5"	2.57"
B	46_13	59"	46"	13"	52.5"	3.39"
	44_15		44"	15"	51.5"	3.33"
	42_17		42"	17"	50.5"	3.27"
	40_19		40"	19"	49.5"	3.21"
	38_21		38"	21"	48.5"	3.15"
	36_23		36"	23"	47.5"	3.09"
	34_25		34"	25"	46.5"	3.02"
	32_27		32"	27"	45.5"	2.96"
	30_29		30"	29"	44.5"	2.65"
	28_31		28"	31"	43.5"	2.60"
	26_33		26"	33"	42.5"	2.55"
	24_35		24"	35"	41.5"	2.50"
	22_37		22"	37"	40.5"	2.44"
	20_39		20"	39"	39.5"	2.39"
C	62_25	87"	62"	25"	74.5"	3.00"
	60_27		60"	27"	73.5'	2.96"
	58_29		58"	29"	72.5"	2.92"
	56_31		56"	31"	71.5"	2.89"
	54_33		54"	33"	70.5"	2.85"
	52_35		52"	35"	69.5"	2.81"
	50_37		50"	37"	68.5"	2.78"
	48_39		48"	39"	67.5"	2.74"
	46_41		46"	41"	66.5"	2.70"
	44_43		44"	43"	65.5"	2.67"
	42_45		42"	45"	64.5"	2.63"
	40_47		40"	47"	63.5"	2.59"
	38_49		38"	49"	62.5"	2.56"
	X		Special Curve Sizes Upon Request			

### Direction of Flow & Drive Placement

**CW** Clockwise  
(RH Right-Hand)



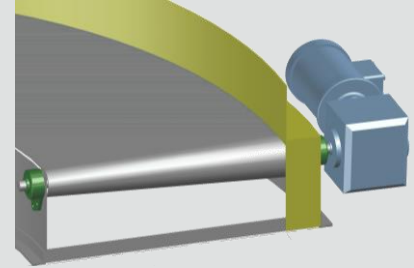
**CCW** Counter Clockwise  
(LH Left-Hand)



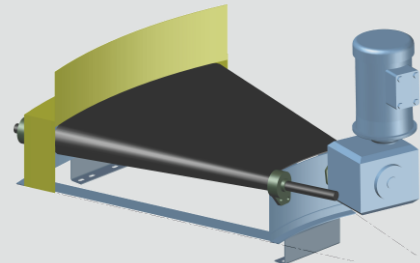
For **Spiral-Turn** applications, please refer to the corresponding Data Sheet

### Drive Mounting Options

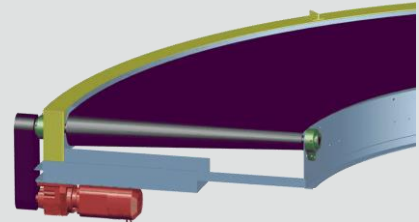
- Horizontal  
(not suitable for inside locations)



- Vertical



- Underslung



- Drum Motor
- Slaved

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.