VBCS14

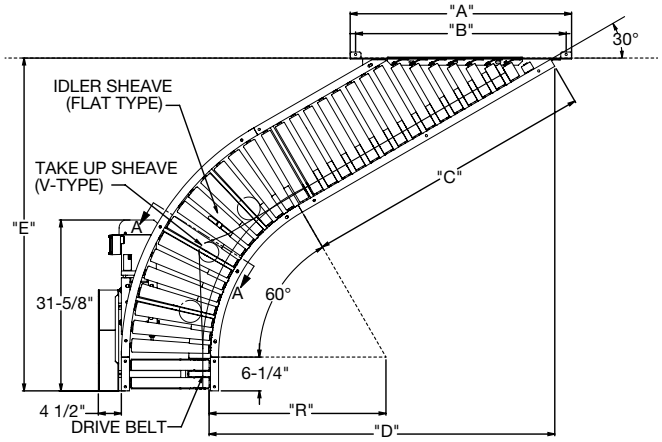
V-BELT DRIVEN LIVE ROLLER CURVE SPUR
(1 3/8 in. dia. x 18 ga. rollers)

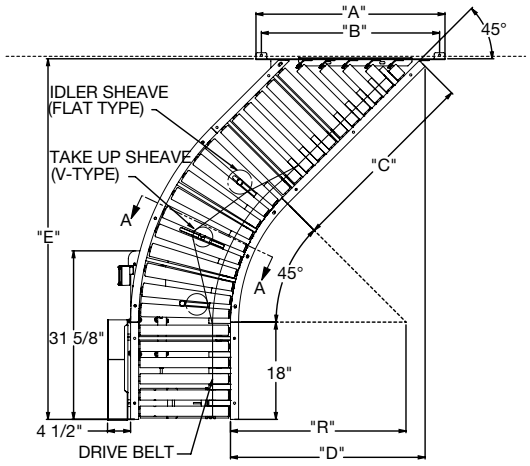
The Model VBCS14 curve spurs are used to transfer product from one conveying line onto another. Offering a positive drive for merging or diverging applications, they are available self-powered or can be slave driven from a straight section or curve.

- **4 Widths**
- **30 or 45 Degree Curve Spurs**
- **Right or Left Hand Units Available**

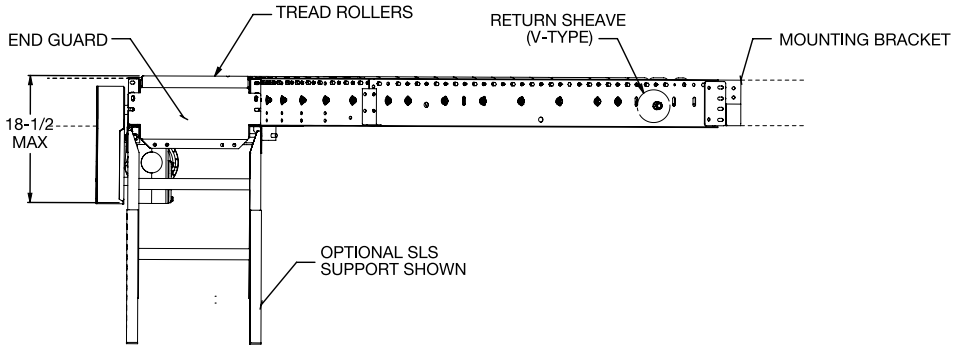
BETWEEN FRAME WIDTH	OVERALL FRAME WIDTH	"R"	"A"		"B"		"C"		"D"		"E"		NUMBER OF ROLLERS		WEIGHT (LBS.)	
			30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°
10"	12"	25"	32"	23"	30"	21"	33"	21"	41 1/8"	22 3/8"	44 5/8"	50 3/4"	40	36	190	182
13"	15"		38"	26"	36"	24"									194	186
16"	18"		44"	32"	42"	30"									198	190
22"	24"		56"	44"	54"	42"	45"	30"	52 3/8"	29 9/16"	50 7/16"	56 15/16	48	42	288	218

PLAN VIEW – 30° AND 45° CURVE SPURS



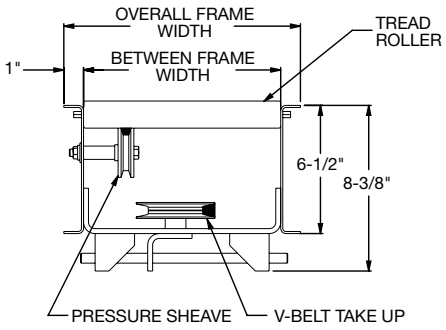


END/SIDE VIEW



SECTION B-B

SECTION VIEW A-A



STANDARD SPECIFICATIONS

BED – 6 1/2 in. deep x 1 in. flange x 12 ga. powder coated steel channel with 1 3/8 in. dia. x 18 ga. rollers

SPUR CURVES: 30 and 45 degree spur curves with 25 in. radius

COUPLINGS – Butt type for connecting VBS14 or VBC14 conveyors

END DRIVE – Mounted underneath bed section on outside radius

DRIVE BELT – Endless B-section V-belt, industrial grade

PRESSURE SHEAVES – 2 1/2 in. dia. with 3/8 in. bore.

IDLER SHEAVE – 4 in. dia. x 5/8 in. bore V-type and/or 5 1/2 in. dia. 5/8 in. bore flat-type

BEARINGS – Tread rollers have pre-lubricated ball bearings. Flange and pillow block bearings are sealed and pre-lubricated.

MOUNTING BRACKET – Bracket is supplied to attach spur to side channel of VBS14 conveyors

CONVEYING SPEED – Constant 65 FPM

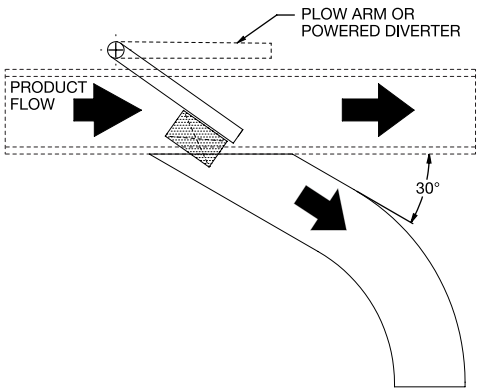
SPEED REDUCTION – Sealed worm gear speed reducer with No. 50 roller chain to drive shaft

MOTOR – 1/2 HP –230/460V-3 phase 60Hz totally enclosed fan cooled, energy efficient

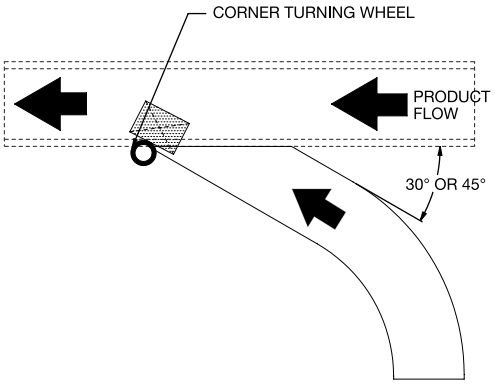
CAPACITY – 150 lbs. total distributed live load

Live Roller Spurs are used to transfer product onto and off of main conveyor lines. The illustrations below show the correct usage of turning wheels with spurs in diverging and merging applications

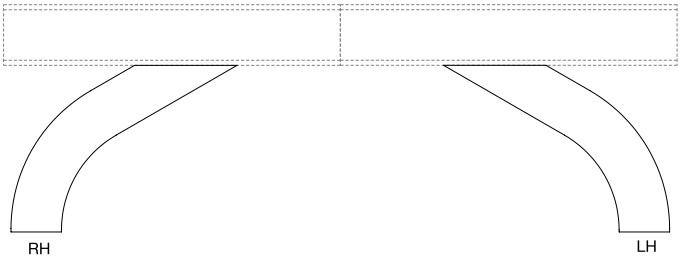
DIVERGING



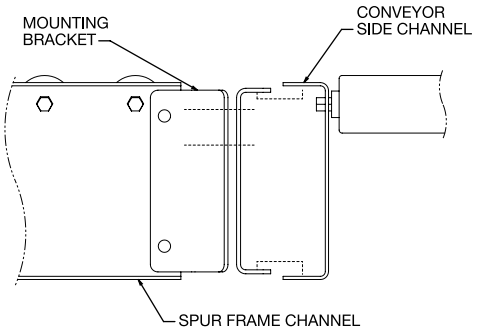
MERGING



SPUR FLOW (SPECIFY)



MOUNTING BRACKET



OPTIONAL EQUIPMENT

FLOOR SUPPORTS – SLS Type floor supports are available with a wide range of adjustment. Specify top of roller elevation. One support required at every bed joint and ends of conveyor. Holes in feet for lagging to floor. Knee braces supplied on SLS-7 support and higher.

CONVEYING SPEED – Other constant and variable speeds.
Note: Capacity affected with speed change.

- Underhung and side mounted drives: 25 – 120 FPM in any increment
- Shaft mounted drive: 25, 30, 45, 50, 65, 85 and 105 FPM nominal
- Consult factory for speeds not listed

MOTORS – Inverter duty, premium energy efficient, single phase, brake motor, other characteristics. 1 HP maximum.

END DRIVE – Mounted on inside radius. Minimum elevation 18-7/8 in.

SHAFT MOUNTED DRIVE – Drive unit mounted on extended drive shaft. Mounting bracket and torque arm allow for multiple mounting positions. Minimum elevation:

- Standard sheave retainer: 9 3/4 in TOR
- Low elevation sheave retainer: 8 1/4 in. TOR

SIDE MOUNTED DRIVE – Motor reducer unit mounted to side of conveyor. Minimum elevation:

- Standard sheave retainer: 10 1/4 in. TOR
- Low elevation sheave retainer: 9 1/2 in. TOR

GUIDE RAILS – Adjustable channel guide rails, fixed angle and channel guide rails. Note: If product comes in contact with guide rails, product flow will be affected.

OTHER ACCESSORIES – Poly-tier supports, ceiling hangars. See accessory section

SLAVE DRIVEN – Standard drive may be omitted and curve can be slave driven from VBS14. (Specify by sketch, location of slave connection. Minimum elevation 11 in.

ELECTRICAL CONTROLS – Non-reversing or reversible magnetic starters and push-button stations. AC variable frequency drive.