Turn Unit/Diverter

Used any time a printed circuit board needs to be rotated ± 90° or ± 180°. Can be used to turn a corner, create an L-shaped line, change individual board orientation, separate or divert boards to multiple locations, and divide or combine lines.

Standard Features

- Turn unit: ± 90° rotation with one input and one output port. Pass/fail mode allows good board to travel straight through and failed board to travel ± 90°
- Diverter: ± 90° and/or ± 180° rotation, with multiple four port input/output combinations
- Edge guide belt or chain configuration
- Variable speed in/speed out
- Allen Bradley PLC
- Slide-width adjust
- Independent DC motor drive
- 4-inch under-machine clearance
- Fixed front rail
- Adjustable transfer height
- Built-in SMEMA compatibility
- Interface mounting brackets
- CE compliant

Optional Features

- Programmable (diverter only) or follow width adjust

Performance Specifications	
Belt Transfer Speed (per second)	13 mm (0.5") to 304.8 mm (12.0")
Average Cycle Time	90º move/6 seconds
Control Module	PLC (Programmable Logic Controller - Allen Bradley)
Transfer Motor	Variable speed DC

Board Specifications	Minimum	Maximum
Length	76.2 mm (3.0")	508.0 mm (20.0")
Width	50.8 mm (2.0")	457.2 mm (18.0")
Thickness	1.01 mm (0.040")	3.18 mm (0.125")
Weight (per belt section)	—	3.18 kg (7 lbs.)
Maximum Warp Allowed	—	0.178 mm in each 25.4 mm, up to 3.18 mm max. (0.007" in each 1.0", up to 0.125" max.)
Length:Width Ratio	1:1 (length parallel to travel can increase)	

Board Clearance (including board)	
Top Side Clearance	25.4 mm (1.0")
Bottom Side Clearance	19.0 mm (0.75")
Edge Clearance	3.0 mm (0.12"), 5.0 mm (0.197"), 6.35mm (0.25")

Service Requirements	
Electrical	90-132 vAC, 50/60 Hz, 5.0 Amps or 180-264 vAC, 50/60 Hz, 2.5 Amps

Physical Dimensions	
Length	914.4 mm (36.0")
Width	914.4 mm (36.0")
Height (at SMEMA transfer height)	1.12 m (44.14")
Transfer Height	962.2 mm (37.88") ± 19 mm (0.75")