

MAXCESS

MAGPOWR



TIDLAND



The Symat 25 is a compact, versatile electromechanical system engineered for narrow-web applications where short entry and exit spans are required. This offset pivot guide is available with three standard roller faces: 160.0 mm (6.30 inches), 200.2 mm (7.88 inches), and 249.9 mm (9.84 inches). The same dimensions are available for guide spans, and the maximum allowed tension is 156 or 200 N (35 or 45 lbf), depending on wrap style used.

Designed with a cast base and precision milled parts, the durable Symat 25 increases productivity by minimizing downtime and waste. Depending on your needs and sensor(s) selected, this guide provides precise, reliable operation in edge, center, or line guide applications. Optional Servo-Center provides automatic guide centering to speed the setup and threading process.

GENERAL SPECIFICATIONS

Product Name

Symat 25 Offset Pivot Guide

Roller Diameter

50.8 mm (2 inches)

Maximum Correction

22.4 mm (± 0.88 inch)

Load Capacity

Up to 200 N (45 lbf)

Guide Span & Roller Face

Minimum - 160.0 mm (6.30 inches)
Maximum - 249.9 mm (9.84 inches)

KEY FEATURES

- Compact design for highly accurate guiding under tight space constraints
- Fully proportional for fast, accurate guiding
- Durable construction for low maintenance and long-lasting reliability
- Very high frequency response
- Accommodates all threading styles
- Precise, backlash-free actuator and DC servomotor
- Optional Servo-Center available to speed setup and threading
- All standard Fife sensors and controllers can be used for edge, center, or line guiding
- Optional mounting brackets and stands are available
- Custom designs available

NOTES

1. T = Tension
2. V = Velocity
3. All dimensions in parenthesis are in millimeters unless otherwise specified.

B = 160.0, 200.2, 249.9 mm (6.30, 7.88, 9.84 inches)

L = 160.0, 200.2, 249.9 mm (6.30, 7.88, 9.84 inches)

J = 0.05L + 9.9 mm (0.05L + 0.39 inch)

Tmax = 151 N (34.0 lbf) for 'S' wrap styles

Tmax = 200 N (45.0 lbf) for other wrap styles

Vcorr = 45 mm/sec (1.77 inches/sec)

Vcorr = J x 76.2 mm/sec (3 inches/sec)

Weight = 4.9 kg (11 lbs) maximum

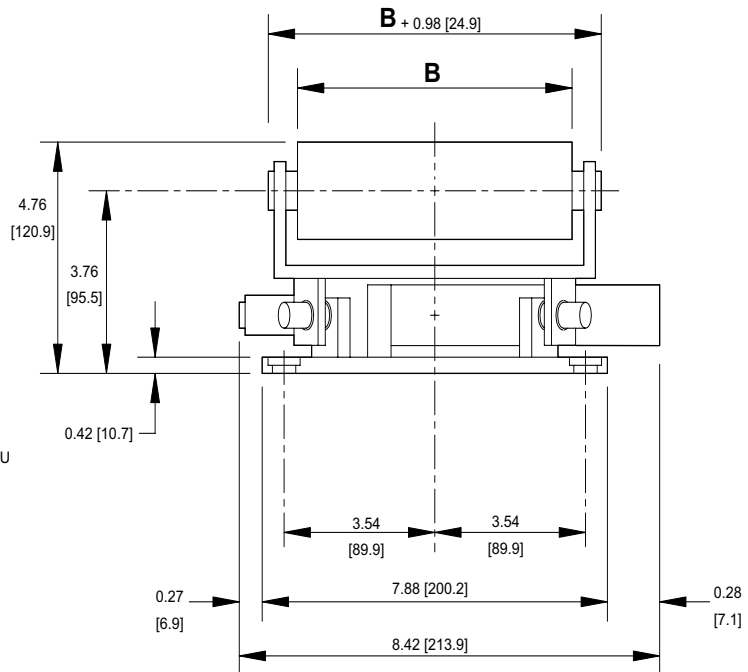
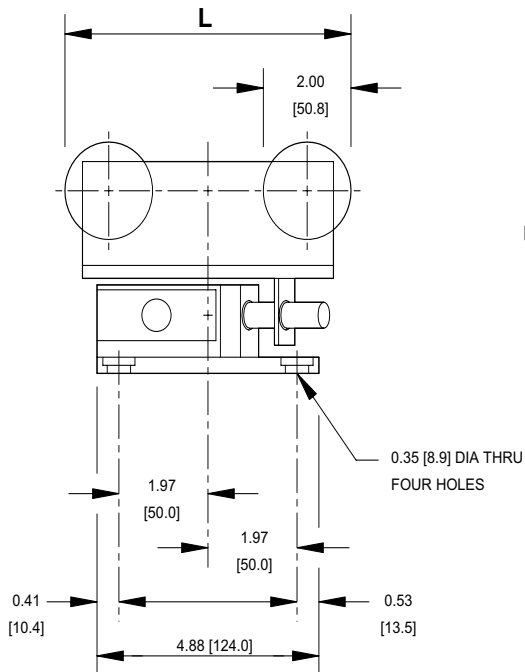
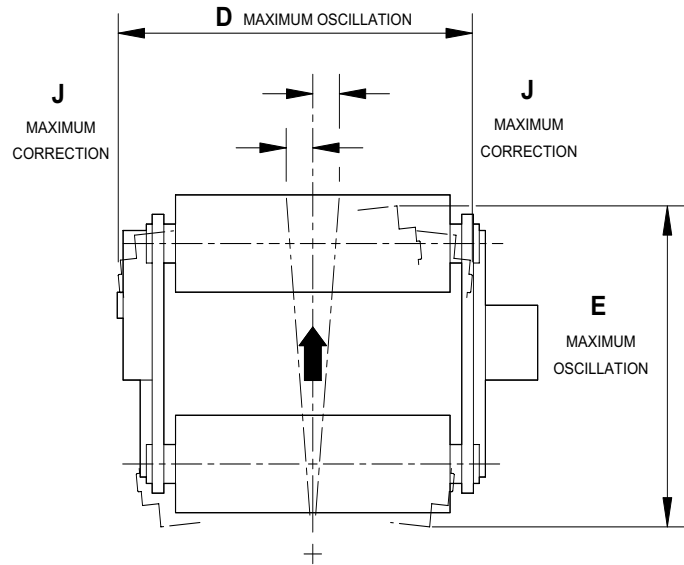


FIGURE 1 SYMAT 25 MODEL SPECIFICATIONS

AVAILABLE ROLL FACE, B: 160 mm (6.30 inches)
200 mm (7.88 inches)
250 mm (9.84 inches)

L DIMENSIONS AVAILABLE FOR WRAP STYLES 24 mm (9.50 inches) minimum
2,3,5,8,10,11,14,16 610 mm (24.00 inches) maximum

L DIMENSIONS AVAILABLE 160 mm (6.30 inches)
200 mm (7.88 inches)
250 mm (9.84 inches)

AVAILABLE ROLL DIAMETERS 51 mm (2.00 inches)

APPROXIMATE MAXIMUM CORRECTION 160 mm (6.30 inches) / 18 mm (0.70 inch) / 2.1 inches/sec² (0.05 meters/sec²)
200 mm (7.88 inches) / 20 mm (0.78 inch) / 2.38 inches/sec² (0.06 meters/sec²)
250 mm (9.84 inches) / 22 mm (0.88 inch) / 2.64 inches/sec² (0.07 meters/sec²)

MAXIMUM WEB TENSION Wrap Styles: 1,5,6,9,10,13 and 14 = 200 N (45 lbf)
Wrap Styles: 3,4,7,8,11,12,15 and 16 = 156 N (35 lbf)

WEIGHT 5 kg (11 lbs) Maximum

D Maximum Oscillation is approximately: $B + 2J + 25$ mm (0.98 inch)

E Maximum Oscillation is approximately: $L + (J/L)(B + 25)$

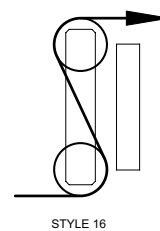
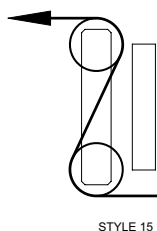
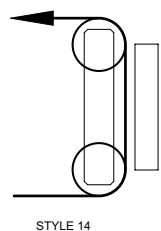
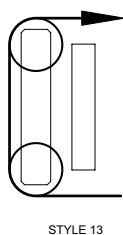
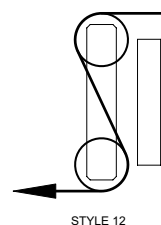
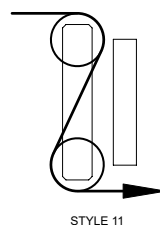
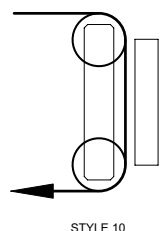
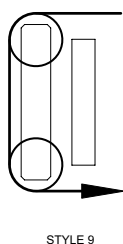
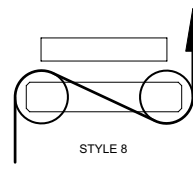
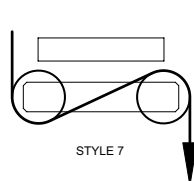
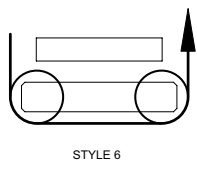
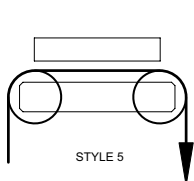
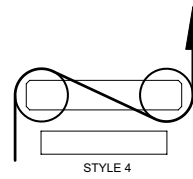
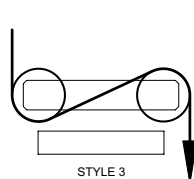
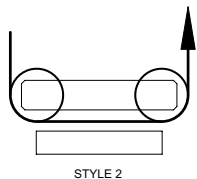
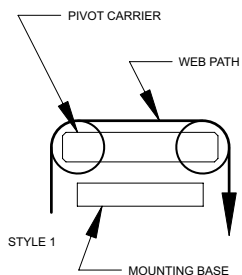
MAXIMUM OPERATING TEMPERATURE For standard guides: 52 ° C (126 ° F)

Custom designs are available upon request. All standard Fife sensors can be used with the Symat 25 for edge, center, or line guiding. They include:

- Infrared light sensors for guiding opaque or clear films
- Line guiding sensors for continuous lines, broken lines, or patterns
- Ultrasonic sensors for use when sensing clear films or opaque webs
- Visible light sensors for highly reflective films or very wide gaps

FIFE SYMAT 25 OFFSET PIVOT GUIDE

OFFSET PIVOT GUIDE WRAP STYLES



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