



Precise material web guiding

The Fife Symat 120A is a compact guiding system that can be used to correct the position of a web with minimal infeed and outfeed lengths.

Due to its modular design, the Fife Symat 120A can be easily adapted to your needs. This is achieved through different lengths, diameters and spacing of the rollers. As well as

various components from Maxcess, the Fife Symat 120A can be used to implement any customer-specific requirement within the scope of the technical specification.

Support rollers as well as assembly rods and positioning devices for sensors can be supplied or retrofitted for all installation variants.

Technical Specifications

Web tension

maximum 1500 N

Correction speed

maximum 100 mm/s*

Correction

± 25 mm bis ± 100 mm*

Correction length

600 - 1200 mm

Roller length

600 - 1200 mm*

Roller diameter

101,6 mm, 127 mm, 152,4 mm, 200 mm*

Ambient temperature

0 °C - 40 °C*

Relative humidity

10 % - 95 %, non-condensing

Protection class

IP40*

Power supply

via a signal processor from FIFE

* other technical data possible on request

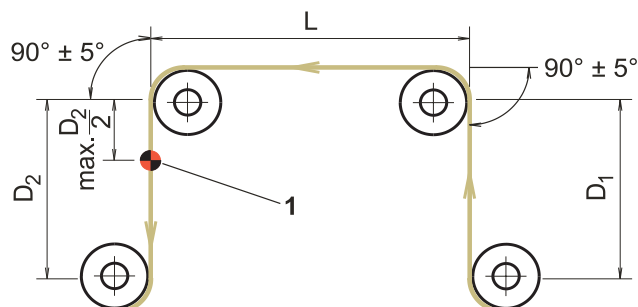
Key Features

- High accuracy due to backlash-free design
- Excellent dynamic properties
- Compact and robust construction
- Large selection of accessories such as
 - Integrated splicing table
 - Mounting adapters
 - Motorized and automatic sensor positioning
- Compatible with all Fife sensors and processors
- Practically maintenance-free
- Easy installation also for retrofitting
- Customisable design

Dimensions in mm

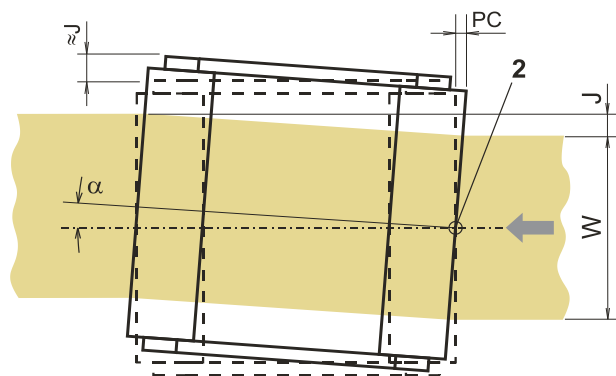
Symat 120A Offset Pivot Guide System

Entry/Exit span formula



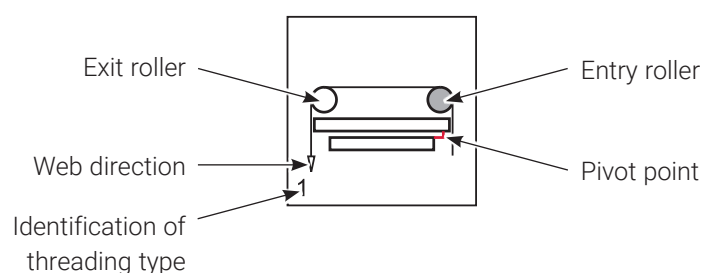
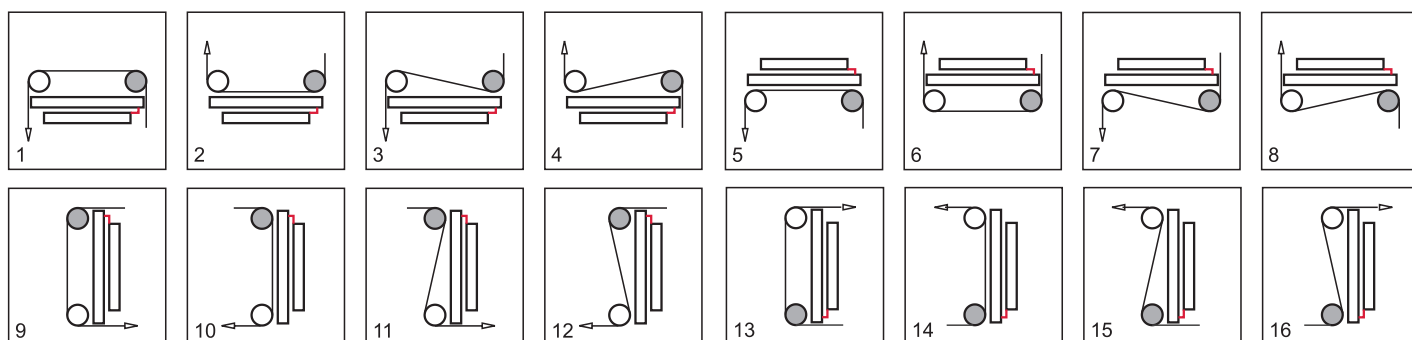
D1	Entry span	(mm)
D2	Exit span	(mm)
J	Correction	(mm)
L	Guide span	(mm)
W	Web width	(mm)
t	Web thickness	(mm)
T	Web tension	(N)
E	Material modulus of Elasticity	(N/mm ²)

- 1 Sensor
- 2 Pivot point



$$D_{1\min} \text{ or } D_{2\min} = 0,00357 \cdot \arcsin \frac{J}{L} \cdot W \cdot \sqrt{\frac{E \cdot W \cdot t}{T}}$$

Installation possibilities



Advanced systems

Versions with additional options for Symat 120A web guiding system are available on request.

Examples:

- Symat 120A with Pro-Trac 200 sensor positioning system
- Symat 120A with Pro-Trac 150 sensor positioning system



Special versions

Special versions of Symat 120A web guiding system are also available on request.

Examples:

- Symat 120A bi-directional
The web guiding system is capable of controlling the web in both directions.
- Symat 120A low
The web guiding system is located under a cover for ground-level operation.



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