

# Silicon

SAWS AND PRESSES

## Servo Feeder Silicon SFS



High performance  
strip feed unit  
Powered by: **FESTO**

[www.bandsagen.de](http://www.bandsagen.de)

## High performance strip feed unit

Feeding length	min 0.10 mm to max. 9999.99 mm
Feeding width	max. 320 mm
Material thickness	0.20 - 3.20 mm
Feeding precision	0.01 mm
Feeding angle	180°
Die line height	± 50 mm
Max. feeding speed	20 m/minute
Positioning:	incremental encoder 24 bit
Strip release	<b>Festo</b> pneumatic
Control	<b>Festo</b> NC Touch screen
Servo brushless motor	0.85 - 1.80 - 2.3 KW
Weight approx feeder:	80-150 kg
Dimension feeder:	780 X 730 X 680 mm
Models width available:	100 mm, 200 mm, 300 mm,

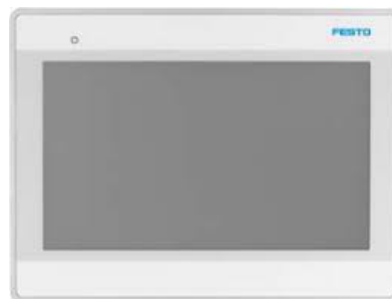


This strip feed unit has been designed to function without parts that are subject to wear, such as brakes and free-wheeling mechanisms. Thus harmful heat generation can be avoided and the unit can operate almost maintenance-free.

Thanks to a reduction in the mass forces, the rigid construction, accurate vibration calculations and the input of many years of experience in design and production, the unit has an exceptional feed performance with optimal step accuracy 24 bit (16 million impulses per revolution).

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The general-purpose workhorse of the **CDPX** line, is available in a wide range of sizes. Thanks to modern touch technology, the projected communication with machines and systems is extremely easy. With the CODESYS V3.5 controller provided by Festo which can be optionally integrated, CDPX panels can be used to create a space-saving controller concept.



The unit is driven by the brushless servo motor, with synchronous belt transmission, eliminate the gear clearance, abrasion, no noise, no lubrication, safely to a synchronized pair of roller segments.

Rolls can be made upon request with PU surface for delicate raw material feeding.

Synchronization of the feeder and punching machine is done easy through cam signal from PLC of a punching machine.

Programmable feeding can be done for up to 99 preprogramed recipe of 10 feeding pitches.

The feed length can be steplessly adjusted or fine corrected in 0.01 of mm during operation.

The system functions with oscillating roller segments for the feed movement and clamping bars which hold the strip firmly during the punching process. The design successfully combines the advantages of a roller feed unit with those of a servo feed unit.

One pushing feed unit usually suffices for most punching work. This can be installed on the left or right, as required. To push or to pull the strip.

A second feed unit might be required, if very thin, or very heavy strips are to be processed or delicate punched strips produced. It is controlled from same operated panel as a twin feeder. In this combination one feeder is pushing and another one is pulling.

Also as option another feeder can be mounted stand alone away from punching machine on its own heavy duty stand to provide space for punched parts to fell after the punching into big hopper.

In general, a second feed unit is used when very thin or thick strip material is processed, or when the punched strip in the tool is very delicate and inclined to jam and fold. Depending on the speed, the strip material, the tool and its condition, the length of the strip could alter during the stamping process.

This can be taken into consideration and compensated for by setting a larger feed length on the second feed unit. Feed corrections can also be carried out easily while the press is running. The feed length on the second unit must, however, never be set too long, otherwise this would have a negative influence on the first unit. The result: a diversity of feed lengths. The two operating feed units must be of the same type and their operation synchronized.



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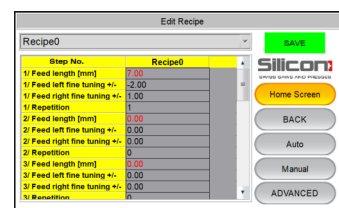
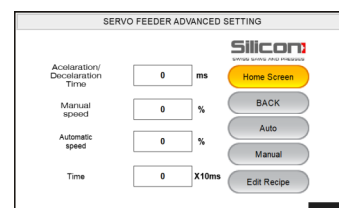
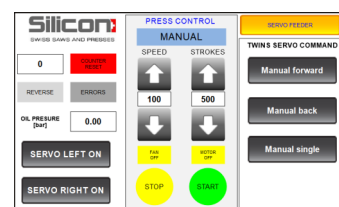
Silicon plus doo Secer sokak 27 RS- 22000 Sr. Mitrovica

Servo roll feeder	SFS 300
Serial No.:	19523R
Weight:	100 kg
Strip width max.:	300 mm
Strip thickness max.:	3.2 mm
Production year:	2023

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Servo feeder is controlled from, easy to operate **Festo** Touch screen operator panel.  
At the servo feed panel, there are also direct tasters for jog forward and reverse, one cycle and roll opening. Direct on board tasters makes easy installing the strip.



**FESTO** products  
Have been preferred  
in this machine

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