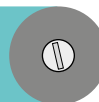


# Symax double stroke syringe pump



The Spetec syringe pump Symax double stroke is an extension of the already available syringe pump Symax. A simple spindle, driven by a stepper motor and operating with shifted power transmission to the syringe presser, allows the simultaneous drive of two separate syringes. While the first syringe is being emptied, the second syringe can be refilled in the meantime. Even large pumping volumes can be constantly transported without pulsation over long periods without having to constantly change syringes manually.

Core elements are stepper motor, spindle, linear guide, syringe holder and exchangeable syringes. Thanks to the stepper motor's high resolution of 25,600 steps per revolution, individual motion steps are practically imperceptible. A connecting part, which rigidly connects the spindle with the syringe plunger, transmits the driving force of the stepping motor and thus provides the feed, i.e. the filling or dosing.



## Technical Data

Mechanical Data	
Dimensions LxWxH (without syringe holder)	270 x 95 x 85 (mm)
Weight	2,300 g
Maximum stroke	91.5 mm
Minimum feed rate	0.248 nm/s
Maximum feed rate	1.24 mm/s
Smallest step resolution	0.0248 µm
Accuracy	±2%
Reproducibility	±2%
Thrust force	100 N at 0,0254 mm/s
Expandable	Up to 6 modules can be connected in series and individually controlled. Two benches of 6 modules operable on one PC.
Materials	Anodised aluminium Stainless steel powder-coated
Syringe holder	Individually adapted syringe holder on request

Electrical Data	
Power supply	Input: 100 – 240 V/50 – 60 Hz Output: 24 V/2.5 A
Power consumption per pump	Quiescent current: 210 mA Operating current: 420 mA
Data communication	RS 485/USB
LabView	prepared project library for integration into a separate system

Operating Conditions	
Temperature range	+10 to +40 °C
Air humidity	20% to 80% non-condensing
Application	aqueous, acidic, alkaline and organic media