



PATENT
PENDING

Compact, powerful,
one of a kind

SycoSLX makes all
the difference

Your benefits – SycoSLX at a glance

When SycoTec brought its successful SLM micromotor onto the market in 2009, it launched the smallest, shortest and lightest drive of its kind. We have now taken the logical next step by developing SycoSLX – the compact and safe micromotor with integrated MOPP* that is safe for patients.



Short, light and perfectly balanced: SycoSLX can be used with all common handpieces and contra-angle pieces and reliably prevents hand and finger muscle fatigue by evenly distributing weight in the hand.

Easy to connect: The bayonet lock enables the motor to be connected quickly and easily to the motor hose without the need to use screws. It is also extremely easy to remove the motor for hygienic reprocessing.

Low-maintenance technology: As a brushless motor with ball bearings that are lubricated for life, SycoSLX is very resistant to wear and tear. This minimizes maintenance costs.

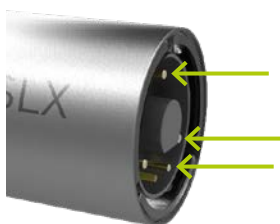
Safe and robust: SycoSLX has a long service life and is also fully sterilizable, compact and extremely quiet. After all, a perfectly balanced rotor operates without any vibrations even during complex procedures.



- + **Compact and lightweight**
for better handling



- + **Bayonet lock**
for adaptations in a matter of seconds



- + **Stable when set down**
thanks to inner pins in the motor housing



- + **Back suction stop**
with easily replaceable O-rings to protect against retrograde contamination of the water spray



- + **Convenient extra-short coupling**
to make the device fully compatible with all commonly used handpieces and contra-angle pieces

Further benefits

- LED technology for illumination that is similar to daylight and true to color to increase safety
- Wide speed range of 100–40,000 rpm
- Torque from a standing start of max. 3.0 Ncm
- Fully sterilizable in an autoclave at up to 135°C
- At least 250 reprocessing cycles without the need for any maintenance thanks to permanently lubricated ball bearings
- No caps needed during reprocessing
- Highly flexible motor hose and rotating connection for relaxed working conditions
- Sensorless motor control system, including for use in endodontics
- Integratable motor control system for dental units



Technical specifications

Speed range	100–40,000 rpm
Torque	from a standing start of max. 3.0 Ncm
Direction of rotation	counterclockwise/clockwise
Power	max. 60 W
Motor technology	PMSM/BLDC brushless synchronous motor
Light	LED similar to daylight and true to color
Weight	62 g
Diameter	Ø 20.0–21.8 mm seamless transition for use with a contra-angle piece
Length (without coupling)	39.4 mm with contacts protected by the housing

Volume	<40 db(A)
Instrument coupling	extra short type 3 (ISO 3964) with light and internal spray
Motor hose connection	bayonet lock quick connect
Instrument cooling air supply	6 ± 1 NL/min
Reprocessing	autoclave sterilization in an autoclave at up to 135 °C
Hygiene	back suction stop prevents retrograde contamination of the water spray
Applications	- endodontics with the appropriate motor control - restoration work - preventative treatment
Warranty	24 months

SycoSLX: the world's first dental motor for additional patient safety

Discover an innovation that makes all the difference: SycoSLX by SycoTec is a dental motor that implements a means of patient protection (MOPP*) in accordance with IEC 60601-1 and IEC 80601-2-60. This means it increases patient protection and it is easier to keep the treatment unit electrically safe.

This makes SycoSLX a secure investment for your product range. But the small unit packs an even mightier punch: SycoSLX also features pioneering technology and is as light and compact as you have come to expect from SycoTec.

See the difference for yourself and enjoy the benefits of the new SycoSLX from SycoTec. We would be happy to advise you.

***What does MOPP stand for?**

MOPP stands for means of patient protection and is part of IEC 60601-1. One of the aims of IEC 60601-1 and IEC 80601-2-60 is to protect patients and users from electrical hazards. To help achieve this, the standard sets out precise and detailed requirements for medical devices. These concern isolation, insulation, clearance and creepage distances, protective earth connections as well as many more requirements. A distinction is made between the following: 1.) MOPP = means of patient protection. A MOPP is a protective measure that aims to minimize the risk of the patient experiencing an electric shock.

2.) MOOP = means of operator protection. A MOOP is a protective measure that aims to minimize the risk of persons other than the patient experiencing an electric shock.

The following applies: "With hazardous voltages present in a system, a robust and reliable approach to isolation and insulation is needed such that multiple and unrelated isolation and insulation system failures would need to occur before an operator or patient is put at risk."



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