



SealLoader 4000

Sealing station for wire processing machines

- Low costs per lead – up to 15 % higher performance compared to previous Schleuniger sealing stations
- Manufacturer independent applicable – compatible with kits and wire processing machines from Schleuniger and other manufacturers
- Extremely easy to operate without tools – very short changeover times
- Comprehensive software integration in Schleuniger's fully automatic crimping machines
- Optimized seal insertion process thanks to the new motorized Z axis
- Enhanced convenience for operators and maintenance staff
- Intuitive operation and quick-lock solutions for rapid tool changes

STATIONS

SealLoader 4000

Concept

The SealLoader 4000 is an automatic seal processing station that can be used on all fully automatic wire processing machines from Schleuniger and third-party suppliers. It also accepts seal kits from third-party suppliers. This gives you improved flexibility and simplifies your production planning. The SealLoader 4000 offers a higher output, easier handling and shorter changeover times than previous Schleuniger sealing stations. The new motorized Z axis is controlled via the software and enables processing that can be finely adjusted to the quality of the seals. Application-specific parameters in the EASY software speed up the entire process, prevent incorrect settings, and ensure fewer rejects. Quick-clamping solutions that can be operated with one hand simplify the seal kit setup process, and minimize the training required.

Options

- SealKit Carrier for the integration of seal kits from third-party suppliers
- Remote control options for settings on the sealing station
- SealCheck quality module for monitoring seal assembly (presence check with optical sensor)
- SealLevelMonitor with warning light (level control of the seal tank with sensor)
- Specific seal kits are available for particular seal types, e.g. for hard-shell, oval, large or mini-seals
- Mechanical base for CrimpCenter
- SealCleaner 20 for cleaning and drying seals by tumbling in combination with special towels, and compressed air

Configurations

Ex works, the SealLoader 4000 is available with a seal supply unit in two basic configurations. These can be equipped differently. All available options can be directly integrated, or retrofitted at a later point in time.



SealLoader 4000 with feed belt unit

- Feed belt system with electric motor
- Low energy consumption
- Large transparent seal tank
- Compact design for easy accessibility
- Can be retrofitted with the seal kits of the SealLoad Unit 3000



SealLoader 4000 with vacuum unit

- System with vacuum feeder
- Low maintenance costs
- Robust and with few wear parts
- Changeover kit for large seals
- In widespread use for decades

Technical Specifications	
Raw Material Diameter	Max. 6 mm (0.23")
Seal Type	Hard-shell seals, oval seals, long seals, mini-seals Note: We can offer you a sampling service.
Seal Dimensions	Max. 17 mm (0.669") outer diameter Max. 19 mm (0.78") length Other sizes available on request
Process Time	Approx. 300 m/s (without options)
Cycle Time	Approx. 900 m/s (depending on the cable, seal, and program)
Dimensions SealLoader 4000 (l x w x h)	680 x 172 x 905 mm (26.7 x 6.7 x 35.6") (black box)
Weight (basic machine without kit)	28 kg (61.7 lbs)
Power Supply	24 V DC, 100 W
Compressed Air Connection	Min. 6 bar (90 psi) compressed air (filtered, dried, non-lubricated)
Interfaces	OPC UA & I/O (24 V DC)
Noise Level L _{pA}	< 76 dB (A)
Compatibility	With SealLoad Unit 3000 and SealLoad 3100 seal kits as well as seal kits from third-party suppliers
CE Conformity	The SealLoader 4000 requires a cable processing machine as a basis for integration and to ensure compliance with CE and EMC machinery directives relating to mechanical and electrical safety and electromagnetic compatibility. Consequently, the integrator of the SealLoader 4000 is responsible for CE conformity.
Important Note	Schleuniger recommends submitting cable samples in cases where there are doubts about the processing capabilities of a particular machine.