

Stent-Coating-Machine

Product information



The Stent-Coating-Machine enables cardiologists to individually coat coronary stents with medication.

seleon handles its clients' service requirements, but it does not have direct contact with the end users.

Customer requirements

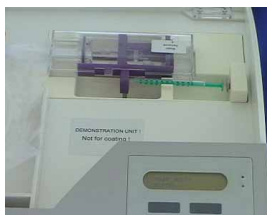
The development of the SCM involved various technical challenges, such as how to sterilely apply the coating to the stent.

Another requirement was to construct a technique that uses inexpensive disposable plastic to coat the stent.

User ergonomics, reliability and easy cleaning were further requirements that needed to be met.

Results

seleon's design, electronics, automation, and spray technique fulfil the above-mentioned requirements using an elegant mechanical coupling.



The coating substance is sprayed onto a stent in a linear, one-dimensional motion.

The stent is evenly coated and the precision of the medication dosage is ensured up to fractions of a milliliter.

The cleverly developed sensor technology and firmware used in the SCM help detect mistakes and irregularities and monitor the coating process. seleon has designed this device so it is able to recognize the difference between a hardware error and improper use. Seleon's specialists who develop software for the automation of complex diagnostic and operational processes designed the control and monitor process so that it ensures proper coatings.

Clinical results from the German Heart Center in Munich show that the SCM device functions extremely well in every day use. In the future, this device will be an important tool for cardiologists in the growing market of coronary stents.

Advantages

Up to now, the device has not had any breakdowns, other than those caused by improper use.



The Stent-Coating-Machine is manufactured and its quality is guaranteed by seleon using specially developed quality control methods that conform to the practices of medical product laws.

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The Stent-Coating-Machine has been internationally used since 2003.