



- Stretch blow molding
- Rinsing / Inspection
- Filling
- Capping
- Labeling

### **Slip Rings for Bottling Plants**

pulses for automation

# Processes in a bottling plant

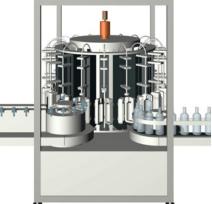
In high-efficient plants for industrial bottling of liquids, the single process steps are generally arranged on carousels. Every single step of such a bottling plant has its specific requirements in terms of transmission of current, data, compressed air or liquids to the rotating platform.

In modern bottling plants, the single plant elements or process steps are digitally networked with each other, and they are controlled and monitored centrally. Fast and reliable transmission of high data volumes with modern data bus systems are the prerequisite for this increasing digital networking.



SR250H







Besides the known requirements for the transmission of high currents, signals and liquid and gaseous media, this places great demands on data transmission quality in the whole transmission chain, and in particular also on the slip rings. Kübler's slip rings are tailored individually to your requirements. Their high-quality contact technology and an innovative shield concept offer you extremely reliable data transmission, even at high data rates up to 100 Mbits per second. They therefore are ideally suitable for data communication in the branch of industrial automation based on Industrial Ethernet, up to Fast Ethernet.



#### Filling

The core process of every bottling plant. Every bottle is filled quickly and precisely to the milliliter.



#### Capping

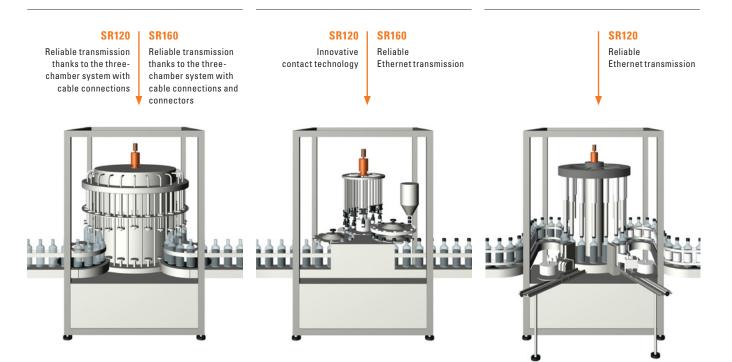
The bottles are capped immediately after the bottling operation and forwarded to the last process step.



### Labeling

This is where the bottles get their identity. The pre-printed label must be affixed accurately and instantaneously.

- · Interference-free signal transmission
- · Ethernet data communication
- · Current supply for the rotating platform
- Current transmission for the capping stations
- Signal / data transmission for control tasks
- · Current transmission for the drives
- · Control data transmission for the single labeling stations



# Kübler slip rings - Reliable and flexible

Kübler slip rings with aluminum or stainless steel housings and a protection level up to IP67 ensure reliable operation in harsh environments. Their modular structure allows obtaining the suitable product for every application.



	Slip ring SR120	Slip ring SR160	Slip ring SR250H
limensions	<ul> <li>ø 120 mm</li> <li>Length depending on the number of channels</li> </ul>	<ul> <li>ø 160 mm</li> <li>Length depending on the number of channels</li> </ul>	<ul> <li>ø 250 mm</li> <li>Length depending on the number of channels</li> </ul>
hree chamber ystem	<ul> <li>Parallel transmission of load, signals, data and Ethernet</li> </ul>	<ul> <li>Parallel transmission of load, signals, data and Ethernet</li> </ul>	<ul> <li>Parallel transmission of load, signals data and Ethernet</li> </ul>
Aedia lead-through	• Media lead-through for air	<ul> <li>Media lead-through in air or hydraulic variant</li> </ul>	<ul> <li>Media lead-through in air or hydraulic variant</li> </ul>
Aodular structure	<ul> <li>Individual number of transmission</li> <li>channels</li> <li>High versatility and flexibility</li> </ul>	<ul> <li>Individual number of transmission channels</li> <li>High versatility and flexibility</li> </ul>	<ul> <li>Designed for highest adaptability: You are provided with your individual customer-specific solution</li> </ul>
oad current max. oad channels)	25 A	50 A	80 A (higher load currents on request)
thernet transmission	yes	yes	yes
rotection level max.	IP65	IP65	IP67
otary speed max.	300 min <sup>-1</sup>	150 min <sup>-1</sup>	150 min <sup>-1</sup>
laintenance intervals	maintenance-free (can reach 100 million revolutions)	maintenance-free (can reach 100 million revolutions)	maintenance-free (can reach 100 million revolutions)

Kübler Group Fritz Kübler GmbH Schubertstrasse 47 78054 Villingen-Schwenningen Germany

Lo (lo Et Pr Ro

Phone +49 7720 3903-0 Fax +49 7720 21564 info@kuebler.com www.kuebler.com