



## FLEXIBLE CABLE MANAGEMENT FOR PACKAGING MACHINES

### Case Study SN Maschinenbau GmbH, Wipperfürth

SN Maschinenbau GmbH, world market leader for horizontally operating form, fill and seal as well as FS rotary machines, ensures the right packaging for every product with bagpackaging technology. Matching the systems to customer-specific filling goods and individual packaging design requires flexible assembly of cable routes and media lines. For reasons of easy system cleaning, SN Maschinenbau routes all cables largely within load-bearing frame parts. For this purpose, the frame construction for each machine is provided with up to 20 outlets for cable feed-throughs. The manufacturer avoids time-consuming processing steps for cable entry and exit by using variable feed-through systems with a standardised screw-on frame and replaceable sealing elements.

### Reliable sealing with KDSClick

To enable problem-free pressurized water cleaning, cable entry systems with IP66 protection are used. "Unfortunately, we had to learn that not every IP66 cable entry system seals sufficiently in practice," explains Simon Goller, an Electrical Engineer at SN Maschinenbau GmbH. For example, water penetrated the terminal boxes of a new packaging machine under production conditions. Cable entry systems with separate frame gaskets and sealing elements proved to be weak, losing their form stability under greater leverage forces. "That's why we now equip our systems with KDSClick cable entry systems from CONTA-CLIP. Where such problems cannot occur," explains Goller.



With KDSClick, the foamed-in frame gasket can neither deform nor slip. The sealing elements remain dimensionally stable even under leverage forces.

**Simon Goller, Electrical Engineer at SN Maschinenbau GmbH**

## Construction of KDSClick

Conventional cable entry systems use separate frame gaskets made of sponge rubber foam, glued onto the surface before the frame is mounted. Often, even small impurities cause damage to the adhesive surface, resulting in the gasket warp under the frame. With KDSClick, on the other hand, the gasket is firmly foamed into the frame. This means that it can neither deform nor slip. In addition, there is no need for cumbersome preparatory work.

The second shortcoming of conventional systems concerns sealing elements with a straight side cut, which distort under the leverage of cables routed in a tight radius and no longer seal reliably

For this reason, CONTA-CLIP designs the sealing elements for KDSClick with a wave-cut and inner lamellae in the feed-through channel. The wave-cut prevents the surfaces from slipping against each other, even under transverse tensile forces, so that dimensional stability is guaranteed and the formation of leaky gaps is prevented



## BENEFITS KDSClick

- + Simple plug-in and click system for tool-free configuration
- + IP66
- + For 4, 6, 8 or 10 Seals
- + Variant KDS-FP for up to 30 cables/hoses
- + Number and diameter of cable/hose passages can be varied at any time and without the use of tools
- + Replacement of individual seals without frame disassembly
- + Frame with foamed-in gasket
- + IP 66 protection even on lacquered or rough surfaces
- + Sealing elements in well over 100 different variants  
For cable/hose diameters from 2 mm to 35 mm, as single and multiple seals as well as for sealing flat cables
- + Conical shape and wave-cut of the seals for a tight fit, dimensional stability and reliable strain relief

**CONTA**CLIP

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