

SONDERHOFF DYNAMIC SPEED

always dosing at maximum application speed
to increase your productivity



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Up to now, the speed of the dispensing application for sealing and bonding components has generally been determined by the component geometry, particularly the radius size. In tight radii, the application speed of the CNC-controlled mixing head is lower than with larger radii. This means that the radius determines the constant application speed for applying the seal on the entire component.

With the new speed-dependent dispensing technology **SONDERHOFF DYNAMIC SPEED**, this radius-dependent traversing speed no longer applies. Instead, the speed of the material application and the component geometry are decoupled from each other, so that the **maximum possible application speed is always achieved** throughout the entire component contour during dispensing.

During programming, the operator enters the maximum speed and the radius size, and the dosing system automatically calculates the maximum possible speed on the straight lines and in the radii.

The basic prerequisite is that the pumps are positioned as close as possible to the mixing head valves.

As a user, you can **save up to 50 % of the cycle time** with SONDERHOFF DYNAMIC SPEED and thus achieve almost twice the production output.

If you are already using a Sonderhoff mixing and dosing system, your CNC dosing programs created for different components can be easily adopted.



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Below we describe the dispensing application with SONDERHOFF DYNAMIC SPEED.

The CNC-controlled mixing head accelerates from the starting point at the maximum application speed set by the operator, e.g. 44 m/min, and maintains this speed until shortly before the radius, then automatically decelerates to the maximum possible radius speed and travels with this speed through the radius.

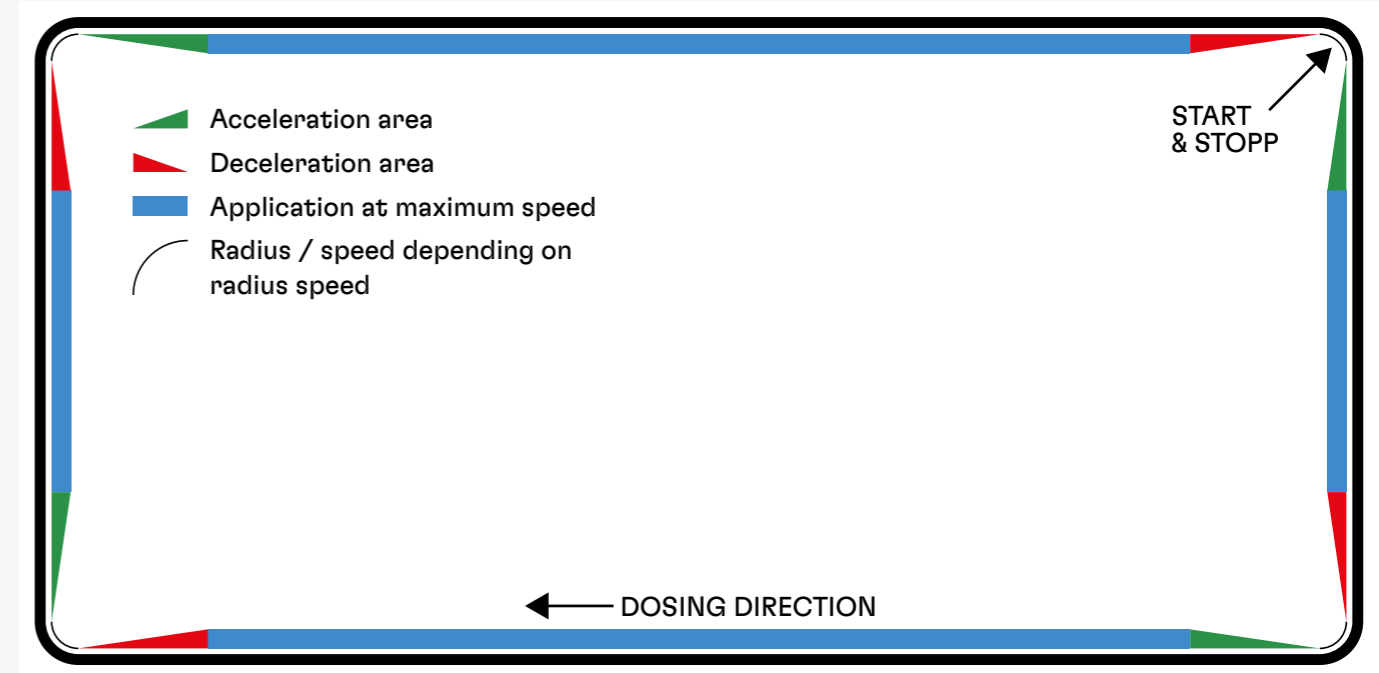
After the radius, the CNC accelerates the mixing head back to the specified maximum speed of 44 m/min. on the straight line. This sequence is repeated up to the coupling point of the sealing, which is closed with the maximum radius speed.

To ensure that a consistently precise sealing contour is always achieved with SONDERHOFF DYNAMIC SPEED, the dosing system controls the material discharge depending on the speed currently being travelled.

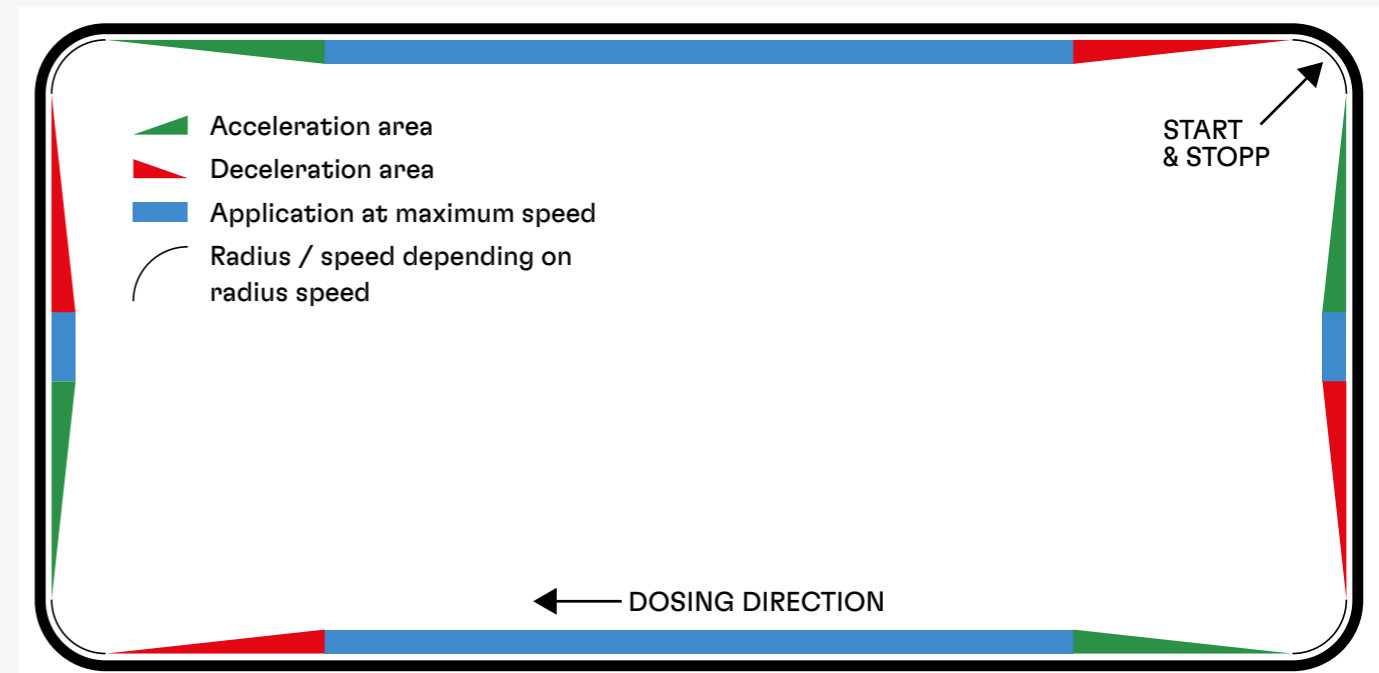
The illustrations on the right show a control cabinet panel with external dimensions of 2500 x1250 mm (length x width) and the application of a seal, particularly the start/stop point, the dosing direction and the various areas in which the mixing head is accelerated, decelerated and travelled at full application speed.

Compared to a seal application at a constant speed, SONDERHOFF DYNAMIC SPEED allows you to **save up to 50 % of the cycle time** and thus achieve almost twice the production output.

Application speed of 34 m/min
with a radius of 8 mm:



Application speed of 44 m/min
with a radius of 13 mm:



Customer-specific solutions – worldwide and for many industries

The Henkel specialists for the Sonderhoff portfolio are available globally

Every year, more than 300 million seals are manufactured in more than 50 countries using products from Henkel's Sonderhoff portfolio. At our Centers of Expertise and Regional Hubs, our specialists offer application engineering advice, e.g. selecting a suitable material system and sampling of your components, as well as project management for dosing systems and automation. You will receive training from us on how to use the FIPFG technology and we will support you with the selection of spare parts and a regular service offering. Furthermore, we will be pleased to take over parts of your production for you – from small to large series – at our subcontracting locations.

Sales staff at all other Henkel locations worldwide will also be happy to answer any questions and provide you with further information on our sealing, bonding, and potting solutions. We look forward to hearing from you.

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