

SONDERHOFF DYNAMIC SPEED

always dosing at maximum application speed
to increase your productivity



SONDERHOFF DYNAMIC SPEED

always dosing at maximum application speed
to increase your productivity

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.



SONDERHOFF DYNAMIC SPEED

always dosing at maximum application speed
to increase your productivity

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.

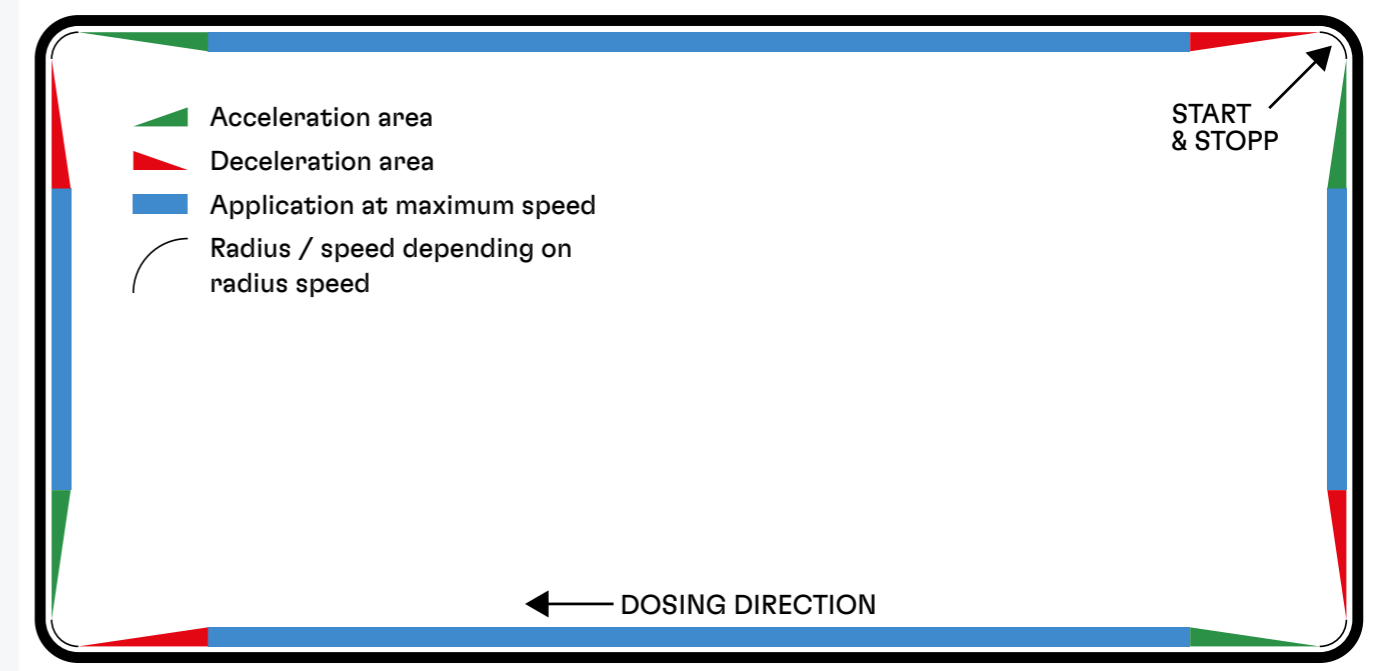
After the radius, the CNC accelerates the mixing head back to the specified maximum speed of 44 m/min. on the straight line. This sequence is repeated up to the coupling point of the sealing, which is closed with the maximum radius speed.

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.

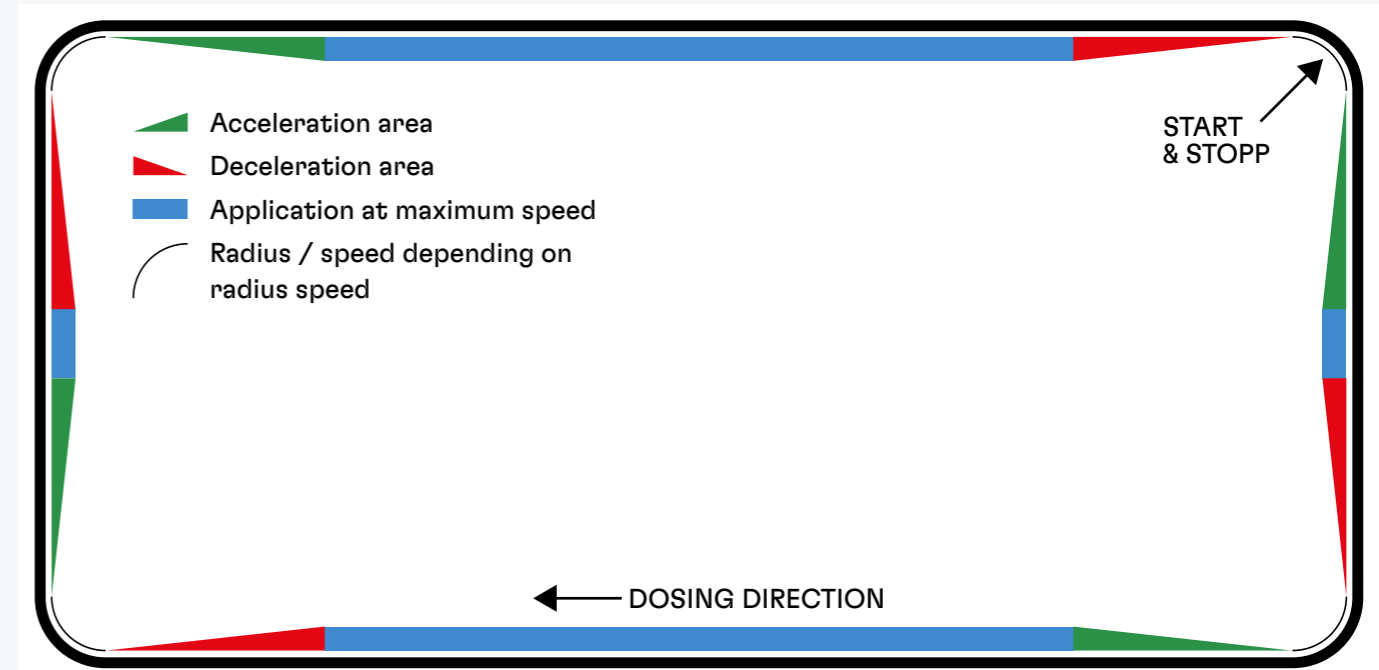
The illustrations on the right show a control cabinet panel with external dimensions of 2500 x1250 mm (length x width) and the application of a seal, particularly the start/stop point, the dosing direction and the various areas in which the mixing head is accelerated, decelerated and travelled at full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

KOLO, POLAND
External Subcontracting Location

DÜSSELDORF, GERMANY
Center of Expertise

ELGIN, ILLINOIS, USA
Regional Hub

RICHMOND (KANSAS CITY), USA
Regional Hub

DORNBIRN, AUSTRIA
Center of Expertise

BARCELONA, SPAIN
External Subcontracting Location

OGGIONO, ITALY
Regional Hub

INCHEON, KOREA
External Subcontracting Location

SHANGHAI, CHINA
Regional Hub

PUNE, INDIA
Regional Hub

PUNE, INDIA
External Subcontracting Location

SÃO PAULO, BRAZIL
External Subcontracting Location

Global presence



Henkel Corporation

One Henkel Way
Rocky Hill, CT 06067
United States
Tel.: +1 860 571 5100
Fax: +1 860 571 5465

www.henkel-northamerica.com

www.henkel-adhesives.com

www.sonderhoff.us

Kontaktieren Sie uns



The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications. The information, product features and pictures contained in this brochure are intended exclusively as a technical guide. Henkel is not responsible for any technical changes or print / typographical errors. Reproduction in whole or in part is prohibited without the prior written consent of Henkel AG & Co. KGaA. Except as otherwise noted, all marks used are trademarks and / or registered trademarks of Henkel and its affiliates in Germany, the U.S., and elsewhere.

© 11.2024 Henkel AG & Co. KGaA. All rights reserved