

MODULAR AND HANDY **SONDERHOFF** **DM 90**

Mixing and dosing machine for semi and fully automatic application processes
for **bonding, sealing and potting materials**



MODULAR AND **HANDY**

The modular workstation for bonding, sealing and potting applications

The SONDERHOFF **DM 90** is a modular mixing and dosing machine for semi-automatic and fully automatic production processes.

KEY BENEFITS

- ✓ Modular machine concept
- ✓ Configured to your application
- ✓ Static and dynamic mixing technologies
- ✓ Semi-automatic or fully automated operation
- ✓ Future-proof and expandable platform



RELIABLE AND EASY TO OPERATE

Designed for quality, efficiency and process reliability

FLEXIBLE

Adaptable to changing production needs

RELIABLE

Consistent mixing and dosing performance

EFFICIENT

Reduced material waste and production time

CONNECTED

Process monitoring and Industry 4.0 readiness

Built around a proven machine platform, the **DM 90** can be configured precisely to your application requirements, material characteristics and production environment. Whether processing low-viscosity or highly filled materials, static or dynamic mixing, manual workstations or automated production cells: the modular system architecture enables a perfectly matched solution for every process.

Reduced to the essentials. Designed for flexibility.

By selecting only the components required for the application, the **DM 90** offers an attractive balance between performance, flexibility and investment costs. As production requirements evolve, the machine can be adapted and expanded with additional modules and process options.

The **DM 90** combines proven mixing and dosing technology with intuitive operation and integrated process monitoring. Its modular design supports a broad range of industrial applications while delivering the precision and repeatability required for demanding bonding, sealing and potting processes.

Flexible – today and tomorrow

The modular architecture allows easy adaptation to changing materials, products and production requirements. As your process evolves, the DM 90 evolves with it.

Reliable quality and efficiency

Precise dosing technology helps reduce material consumption, shorten cycle times and improve process consistency across production batches.

Industry 4.0 ready

Integrated process data logging records key parameters such as material pressure, pump torque, dosing quantities, weighing data and alarm messages for enhanced process transparency and traceability.

User-friendly operation

A 15.6" touchscreen with intuitive menu guidance supports operators during setup, calibration and production. Integrated precision weighing continuously verifies dosing accuracy and process stability.

DM 90 OVERVIEW

Touchscreen

Visualization and operation via 15.6" touchscreen with interactive menu-guided calibration and dosing process

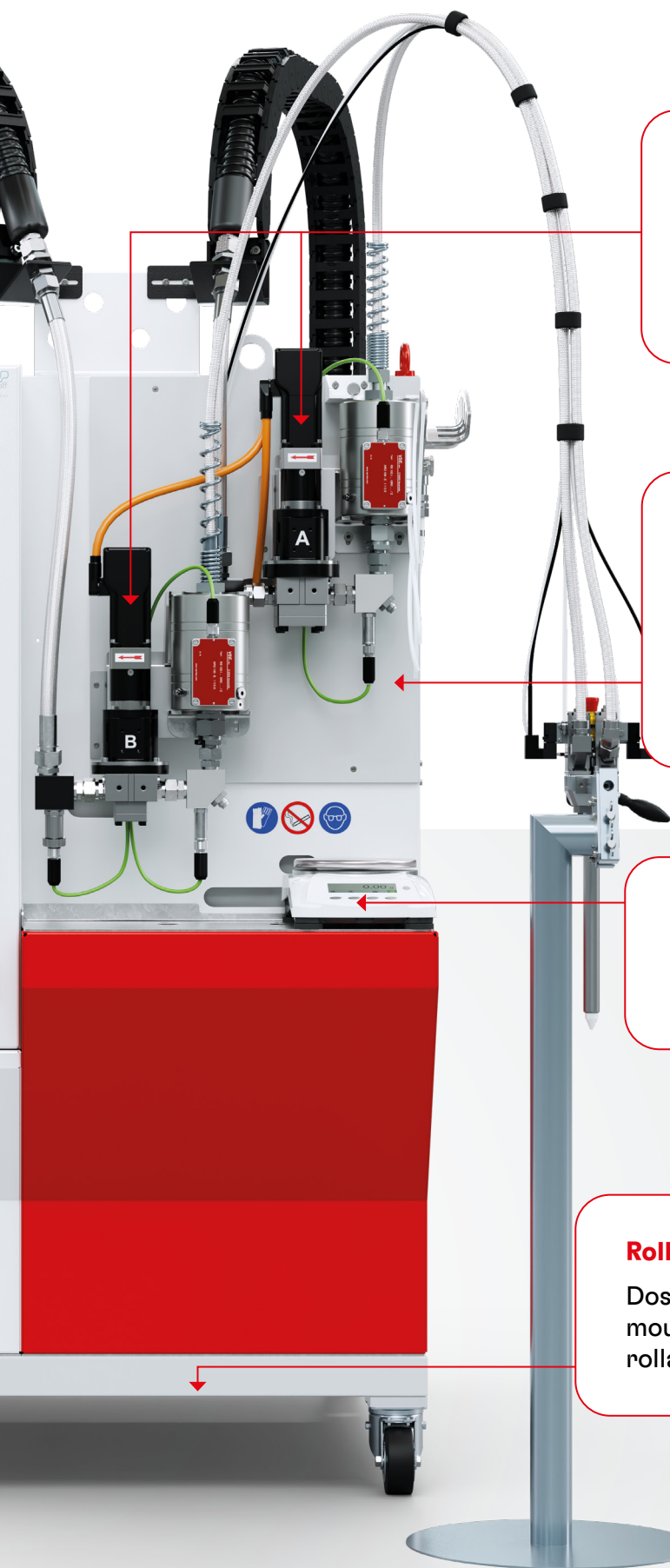
Process data logging

of material discharge quantities, mixing ratios, material pressures, pump torques, weighing data, correction factors and alarm data

Operating mode control panel

with warning lights, key switch for preselecting the operating mode and EMERGENCY STOP shutdown

Henkel



Precise dosing pumps

Both gear pumps and screw pumps are available for particularly abrasive materials. The pump size is individually adapted to the customer's process.

2K precision mixing head with dynamic or static mixing

with servo drives, for discharge rates infinitely variable from 0,2 to 30 g/s and mixing ratios from 10:1 to 1 : 1 (depending on pump size and material viscosity)

Integrated precision scale

for permanent weighing check for calibration and dosing

Rollable chassis

Dosing machine mounted on rollable chassis

A MACHINE LIKE A TOOLBOX - AS FLEXIBLE AS YOUR APPLICATION

Your mixing head



MK 500
Dynamic
mixing
head



MK 21
Static
mixing
head hand
application



MK 21
Static
mixing
head fixed
on robot

Your optional modules



Precision
scale



Barcode
scanner



Cartridge
filling unit

Your dosing pumps



Gear pump with drive



Screw pump
with drive



Configure only what you need.

Every production process is different. For this reason, the SONDERHOFF DM 90 follows a modular toolbox concept. It is based on a proven machine platform that can be configured precisely to your process and material requirements. Whether bonding, sealing, potting, static or dynamic mixing, manual or automated operation: the modular design enables customer-specific solutions without the complexity of a fully customized machine. By selecting the appropriate material supply, dosing pumps, mixing technology and process options, every DM 90 becomes a system tailored to your application.



Your special features



Vacuum pump



Tempering unit



Tank without agitator

Your supply device



Barrel Pump Station



Tank with agitator



Tank single-/ double-walled

ONE PLATFORM. COUNTLESS POSSIBILITIES.

Tailored to your material and process requirements.

The SONDERHOFF DM 90 can be configured for a wide range of material systems, viscosities and production requirements. By combining the appropriate material supply, dosing technology and mixing system, each machine is tailored to the specific application while maintaining a standardized and proven platform concept.

EXAMPLE: BONDING AND SEALING

- ✓ MK 500 Dynamic mixing head
- ✓ Gear pumps & gear flow meters
- ✓ Precision scale



- ✓ Pressure tanks for A- and B-Component
- ✓ Tempering Unit
- ✓ Vacuum pump



EXAMPLE: POTTING

- ✓ MK 500 Dynamic mixing head
- ✓ Gear pump & screw pump
- ✓ Precision scale

- ✓ Barrel Pump Station for A- and pressure tank for B-Component
- ✓ Tempering Unit
- ✓ Vacuum pump



Technical Specifications

Parameter	Specification
Gear pump sizes	0.05–20 cm ³ /rev
Screw pump sizes	0.4–8.2 cm ³ /rev
Material supply:	Drum pump station (high-viscosity) or material pressure tank (liquid)
Dosing accuracy	±2%
Mixing ratio	Continuously adjustable from 100:1 to 1:100
Selectable mixer speed for dynamic mixing	Continuously adjustable from 1 to 4,000 rpm
Working pressure	Approx. 20 bar
Dimensions of movable base frame	(W x L) 1,200 mm x 1,440 mm
Optional electric heating	(Maximum of 4 heating circuits), e.g., heating hose
Power connection:	3 x 400 V

EXAMPLE: PROCESSING OF HIGH-FILLED MATERIALS

- ✓ MK 21 Static mixing head
- ✓ Screw pumps
- ✓ Precision scale
- ✓ Barrel Pump Station for A- and B-Component



ONE MACHINE. MANY INDUSTRIES.



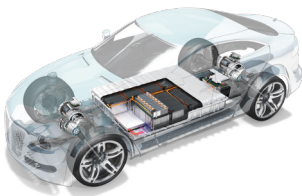
Clothes washer
Top lid bonding



Clothes washer
Control panel bonding



Clothes washer / dryer
Glass door bonding



E-Mobility batteries
Structural bonding



E-Mobility batteries
Potting



Headlamp
Bonding



Medical Technology
Potting of dialyzers and
oxygenators



Liquid Filtration
Potting of hollow fiber



Recreational Vehicles
Bonding



Different industries. Different challenges. One proven platform.

Thanks to its modular machine concept, the SONDERHOFF DM 90 can be configured to meet the specific requirements of a wide variety of bonding, sealing and potting applications. From household appliances and e-mobility to medical technology and filtration, the DM 90 adapts to your materials, processes and production environment. Its flexible architecture ensures reliable performance, high process stability and a solution tailored to your individual manufacturing requirements.

Configured for your process. Proven across industries.



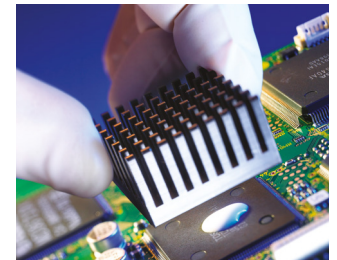
Oven / microwave
Door panel bonding



Cooktops
Edge sealing



Exterior
Bonding



Electronic architecture
Bonding and Potting

Whatever your industry, the **DM 90** adapts to your material, process and production requirements.

PERFECTLY COORDINATED SOLUTIONS FOR **MATERIAL,** **MACHINE** AND CONTRACT MANUFACTURING **FROM A SINGLE SOURCE**

With the Sonderhoff brand, Henkel has many years of experience in the manufacture of customized 2-component sealing systems, mixing and dosing machines, process expertise and know-how for application-specific material processing.

With the Sonderhoff portfolio, we offer you the advantages of a system provider from a single source and the solutions for your technical and commercial challenges.

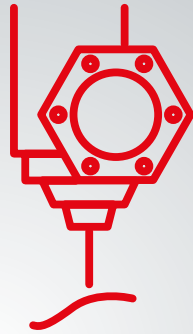
We ensure efficient production processes meeting the requirements of fully automated series production and are available to you worldwide with our service staff.

If you want to benefit from all the advantages for your production flexibly, quickly, easily and without having to invest in your own procurement, we can take over the sealing of your parts from experts at one of our contract manufacturing locations worldwide. There, the spectrum ranges from prototype sampling and small series to series production on a production scale.

The choice is yours!

You can either opt for our all-inclusive package, consisting of material, machine, and contract manufacturing, supported by application advice, sampling and training.

Or you can choose the individual solutions that suit you best. We combine our products and services from a single source to provide you with the optimum solution for your requirements profile.

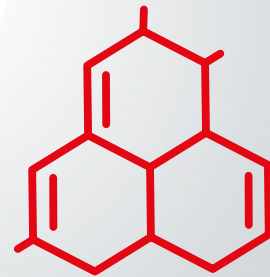


EQUIPMENT

Automation Solutions



MANUFACTURING



MATERIALS

CUSTOMER-SPECIFIC **SOLUTIONS** – *WORLDWIDE AND FOR MANY* **INDUSTRIES**

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



Sonderhoff experts are available worldwide to support your application and production requirements.

At our Centers of Expertise and Regional Hubs, our specialists offer application engineering advice, e.g. on the selection of a suitable material system and the sampling of your components, as well as project management for dosing systems and automation. You will receive training from us 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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