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dosmatix products

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dispensing in perfection.

Accessible for medium-sized companies,
groundbreaking for automated production.

At [dosmatix](#), we have made it our mission to design dispensing systems as simply as possible and to develop them according to the modular principle. In this way, we offer our customers maximum added value in procurement and in the operating process.

Medium-sized companies in particular benefit from an uncomplicated entry into automated dispensing technology. Our components are developed with a clear focus on digitalization and the unique advantages of smart production. We attach great importance to optimized maintenance through predictive maintenance and optimized use of resources.

With [dosmatix](#), you receive custom-fit, high-quality systems that are tailored to your potting requirements. Our team will provide you with personal and competent support at all times.

Welcome to dosmatix.

our vision

„The best dispensing results through excellent performance.“

In our company, excellent performance is the key to everything we do. It forms the basis for our mission to create the highest added value for everyone involved. This is reflected in our daily interactions, in the performance of our systems and in our cooperation with our customers and partners. Our responsible approach to the environment is also an integral part of this philosophy.

Our vision is to achieve the best dispensing results. To achieve this, we always follow our three main pillars: Innovation, digitalization and excellence. These values drive us to continuously push the boundaries of what is possible in order to deliver outstanding results.

from dosmatix
into the world >>





dosmatix dispensing systems.

The perfect solution for your application.

Every application, every type of material and every customer requirement demands an individual combination of systems to ensure a precise and efficient system. The dosmatix dispensing systems are designed according to the modular principle and thus offer maximum flexibility to optimally cover a wide range of applications.

The right combination of a precise dispensing system, a reliable material supply and the right kinematics solution is crucial for outstanding performance throughout the entire potting process.



dispenser

Different potting requirements such as variable dispensing quantities and cycle times place specific technical demands on the dispensers which are used. dosmatix dispensers offer ideal and tailor-made solutions for the precise potting of a wide range of materials and make an important contribution to the uncompromising top quality of the end products.

material preparation

Potting materials have a wide range of properties. Optimum material preparation (e.g. degassing or tempering) and trouble-free transportation of the material to the dispenser are therefore essential for reliable dispensing. The type of material influences which type of material supply is the right one for the respective application.

kinematics

Different production environments as well as potting and process requirements demand the integration of a dispenser into a manual workstation or a fully automatic kinematic solution. dosmatix offers flexible solutions. They fulfill the latest safety standards and provide tailor-made additional functions to ensure a safe and flawless dispensing process.

dosmatix products

dispenser



Piston dispenser
dos piston

Material dispensing from 0.1 to 106 ml for abrasive and non-abrasive media.



Progressive cavity dispenser
dos screw

Spot dispensing from 15 µl and continuous bead application at a speed of up to 600 ml/min.

COMING SOON

Gear dispenser
dos gear

Volumetric dispensing system for unfilled, non-abrasive, highly viscous media.



Material preparation up to 70.000 mPa·s
dos prep light

Preparation and feeding of abrasive and non-abrasive materials with a filling volume of 0.5 or 3 liters.



Material preparation up to 70.000 mPa·s
dos prep

Preparation and feeding of abrasive and non-abrasive materials up to a viscosity of 70,000 mPa·s.



Material preparation from 70.000 mPa·s
dos feed C

Feeding abrasive and non-abrasive materials in cartridges from a viscosity of 70,000 mPa·s.



Material preparation from 70.000 mPa·s
dos feed H

Transport of abrasive and non-abrasive materials in hoppers from a viscosity of 70,000 mPa·s.



Integration
dos in-line

Axis system for movement of the dispenser in 3 degrees of freedom.



Stand-alone
dos cell light

Compact dispensing robot incl. protection cell with axis movement in 3 degrees of freedom.



Stand-alone
dos cell

Axis system including protection cell for moving the dispenser through 3 degrees of freedom.



Vakuum chamber
dos vac

Vacuum chamber with integrated axis system for positioning components in 3 degrees of freedom.

material preparation

kinematics



dos piston

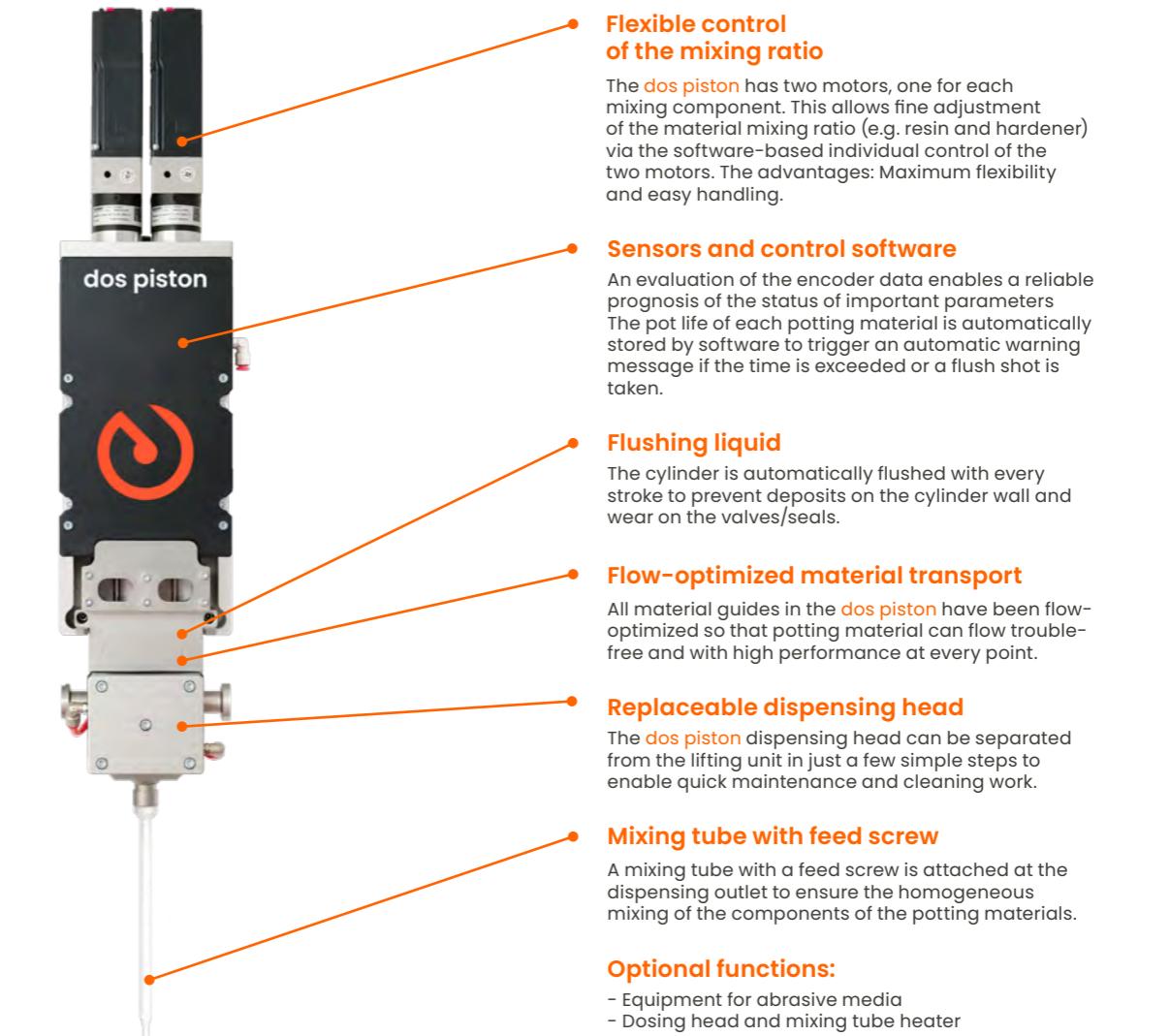
the all-rounder of dispensing.

Material potting from 0.1 ml to 106 ml.



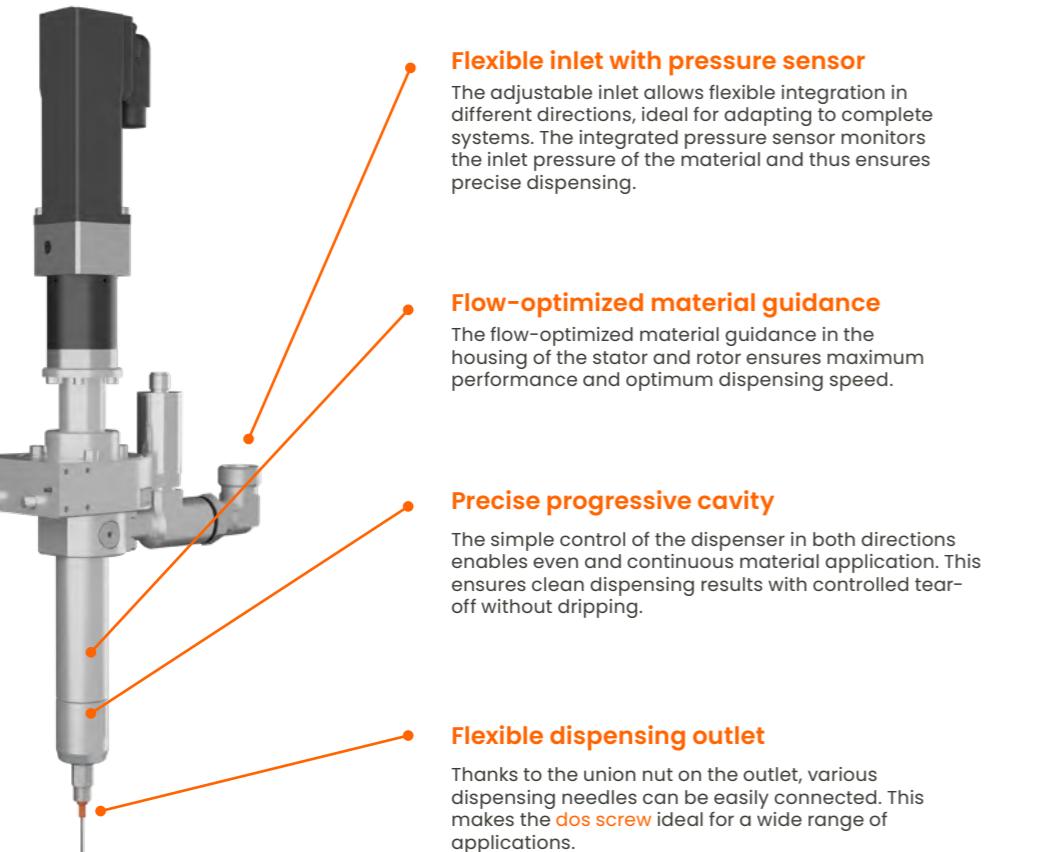
advantages:

- Intelligent system control
- Flexible mixing ratio settings
- Easy system integration
- Innovative construction



Variant	M	L	M - A (alternating)	L - A (alternating)
Dispensing volume*	0.1 to 43 ml	up to 106 ml	continuous	continuous
Material viscosity	All viscosities			
Dimensions (lxwxh)	110 x 155 x 660 mm	125 x 200 x 775 mm	160 x 275 x 695 mm	185 x 355 x 810 mm
Weight	ca. 12.4 kg	ca. 16.3 kg	ca. 28.2 kg	ca. 39.8 kg

*(Mixing ratio 1:1 2C)



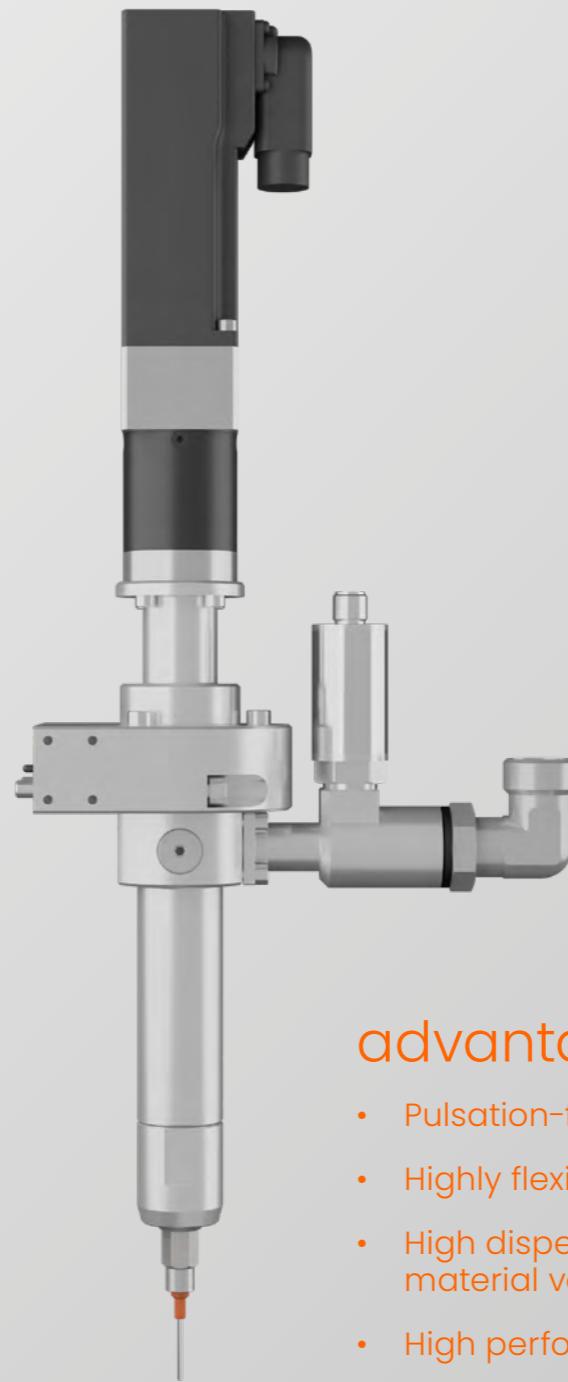
Variant 1C	XS	XS	S	S	M	M	L	L	XL	XL
Quantity per rotation	3 µl	10 µl	50 µl	0.14 ml	0.53 ml	0.35 ml	1,1 ml	2 ml	9,5 ml	
Max. Dispensing speed*	180 µl/min	600 µl/min	3000 µl/min	8.5 ml/min	32 ml/min	21 ml/min	66 ml/min	120 ml/min	570 ml/min	
Min. Dispensing quantity	<1µl	1 µl	5 µl	0.015 ml	0.06 ml	0.04 ml	0.1 ml	0.2 ml	1 ml	
Material viscosity	up to 1,000,000 mPa·s									
Dimensions** (lxwxh)	190 x 89 x 341 mm	182 x 89 x 353 mm	195 x 96 x 424 mm	200 x 96 x 452 mm	200 X 96 X 471 mm					
Weight aluminium***	ca. 2.3 - 2.9 kg	ca. 2.3 - 2.95 kg	ca. 2.8 - 3.5 kg	ca. 3.9 kg	ca. 4.3 kg					
Weight stainless steel***	ca. 2.5- 3.3 kg	ca. 2.6 - 3.4 kg	ca. 3.7 - 4.4 kg	ca. 5.1 kg	ca. 5.8 kg					

Variant 2C: All 1C variants can be combined in different ways to form a 2C variant.

* 60 rotations/min

** without dispensing needle

*** incl. motor



dos screw
endless dispensing power by dosmatix.

Spot dispensing from (< 1 µl) and continuous bead application at a speed of up to 600 ml/min.



advantages:

- Pulsation-free homogeneous bead applications
- Highly flexible for a wide range of media
- High dispensing accuracy even with very small material volumes
- High performance with low weight



dos prep light

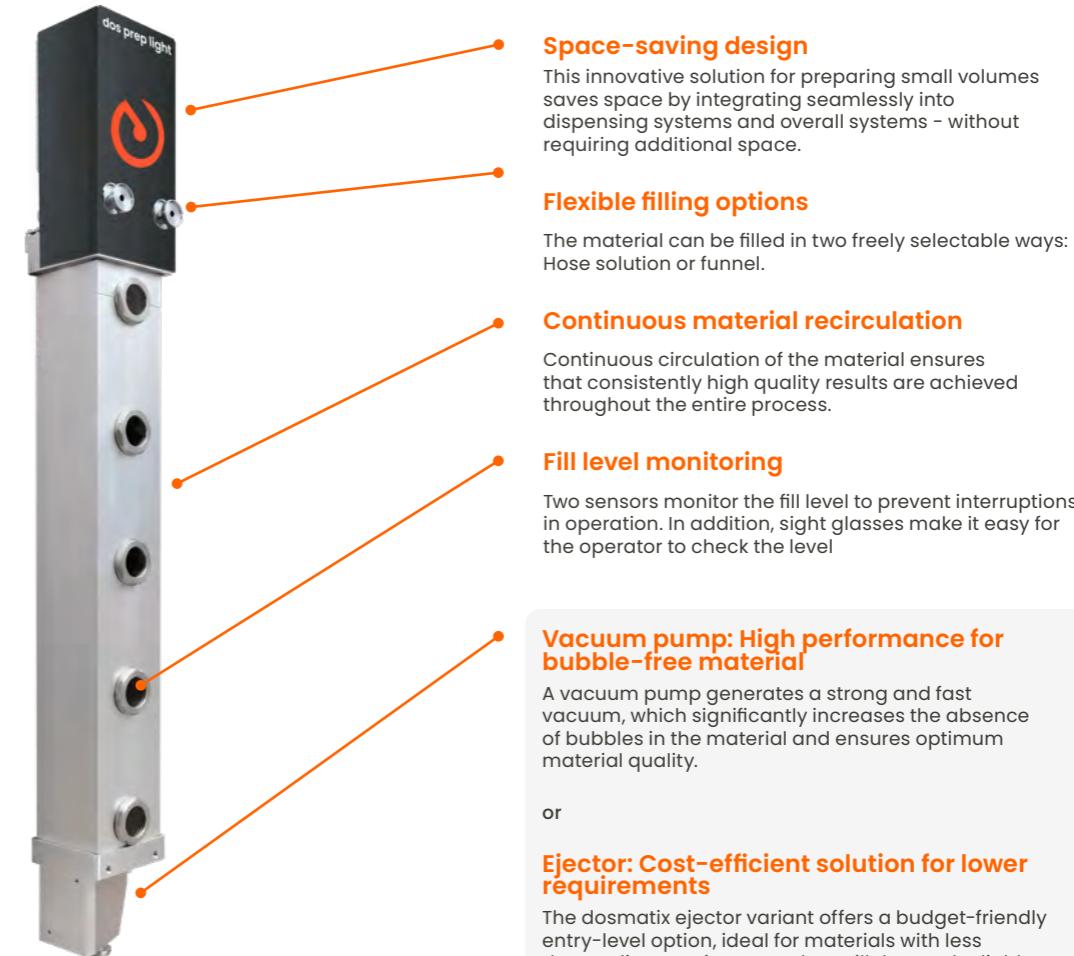
smart preparation for small volumes.

Preparation and feeding with a
filling volume of 0.5 or 3 liters.



advantages:

- Efficient preparation of very low volumes
- Space-saving integration
- Two variants for optimum material homogenization
- Ideal for laboratory and research applications



material preparation | small volume preparation

Space-saving design

This innovative solution for preparing small volumes saves space by integrating seamlessly into dispensing systems and overall systems - without requiring additional space.

Flexible filling options

The material can be filled in two freely selectable ways: Hose solution or funnel.

Continuous material recirculation

Continuous circulation of the material ensures that consistently high quality results are achieved throughout the entire process.

Fill level monitoring

Two sensors monitor the fill level to prevent interruptions in operation. In addition, sight glasses make it easy for the operator to check the level

Vacuum pump: High performance for bubble-free material

A vacuum pump generates a strong and fast vacuum, which significantly increases the absence of bubbles in the material and ensures optimum material quality.

or

Ejector: Cost-efficient solution for lower requirements

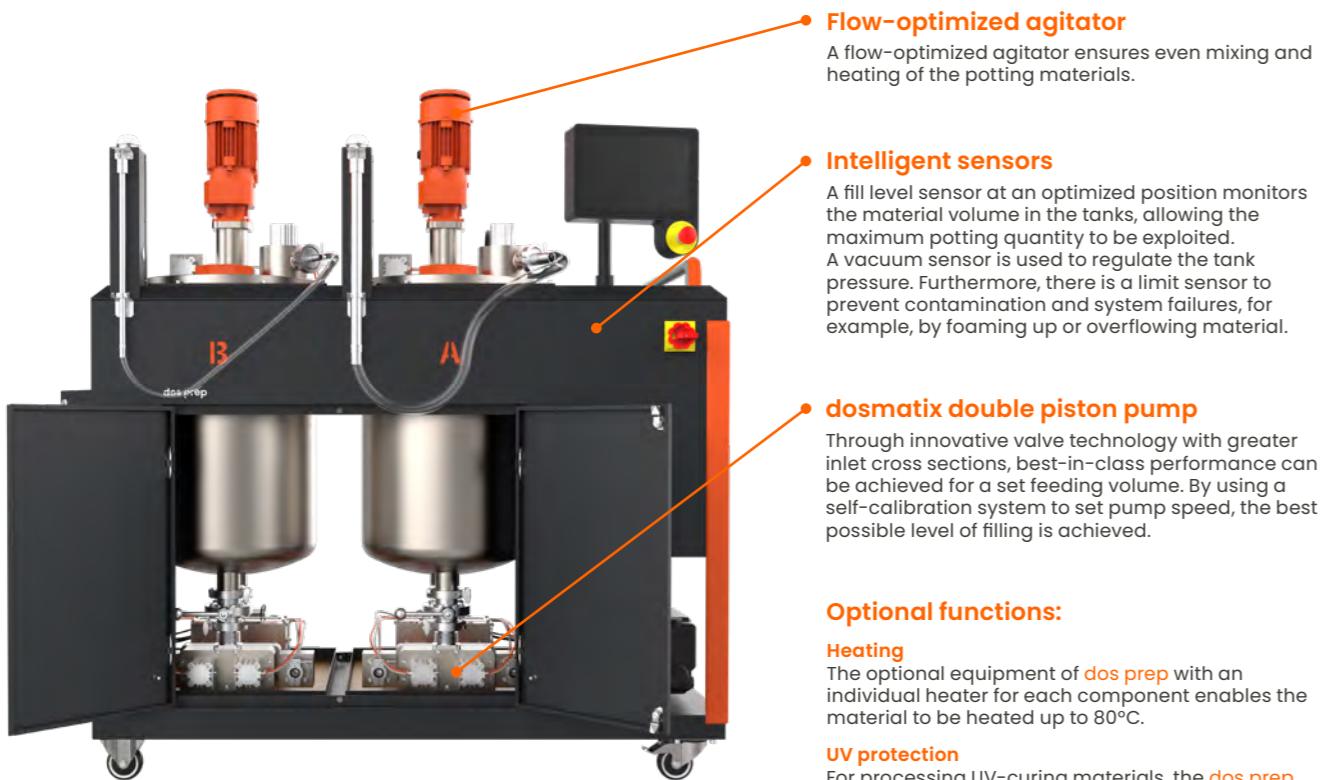
The dosmatix ejector variant offers a budget-friendly entry-level option, ideal for materials with less demanding requirements that still demand reliable performance.

Optional functions:

Heating

The optional equipment with a heater enables heating the material up to 80°C.

Variant	S	L
Volume per variant	0,5 l	3 l
Feed volume	35 ml/stroke	
Vacuum level		5 mbar
Maximum temperature	80 °C (with option heating)	
Height	570 mm	1070 mm
Weight	6.5 kg	12 kg



Flow-optimized agitator
A flow-optimized agitator ensures even mixing and heating of the potting materials.

Intelligent sensors
A fill level sensor at an optimized position monitors the material volume in the tanks, allowing the maximum potting quantity to be exploited. A vacuum sensor is used to regulate the tank pressure. Furthermore, there is a limit sensor to prevent contamination and system failures, for example, by foaming up or overflowing material.

dosmatix double piston pump
Through innovative valve technology with greater inlet cross sections, best-in-class performance can be achieved for a set feeding volume. By using a self-calibration system to set pump speed, the best possible level of filling is achieved.

Optional functions:

Heating
The optional equipment of dos prep with an individual heater for each component enables the material to be heated up to 80°C.

UV protection
For processing UV-curing materials, the dos prep can be equipped with UV protection.

Variant	1 Component	2 Components
Volume per tank		60 l
Feed volume		250 ml/stroke
Feed performance - at least	250 ml/min per component (viscosity of ca. 70,000 mPa·s)	
Feed performance - at least	1500 ml/min per component (viscosity of ca. 1,000 mPa·s)	
Vacuum level		5 mbar
Maximum temperature		80 °C (with additional option heating)
Electrical supply	400V AC (3L-N-PE) / 16 A	
Pneumatic supply	Constant 6 Bar, class 5 DIN ISO 8573-1	
Dimensions (lxwxh)	900 x 850 x 1500 mm	1600 x 850 x 1500 mm
Weight	ca. 400 kg	ca. 600 kg
Control system	Beckhoff Automation	

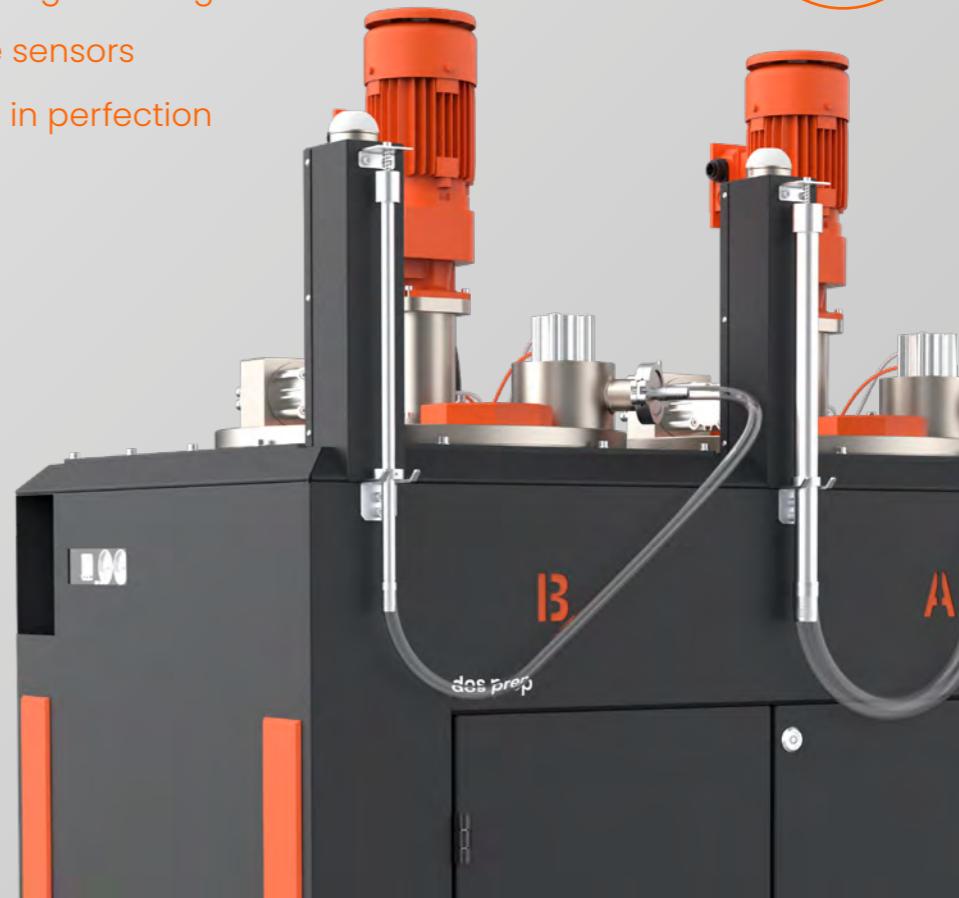
dos prep

material preparation for perfect dispensing results.

For abrasive and non-abrasive materials up to 70,000 mPa·s.

advantages:

- unmatched feed performance
- process reliability through self-regulation
- industry 4.0-capable sensors
- material preparation in perfection





dos feed C

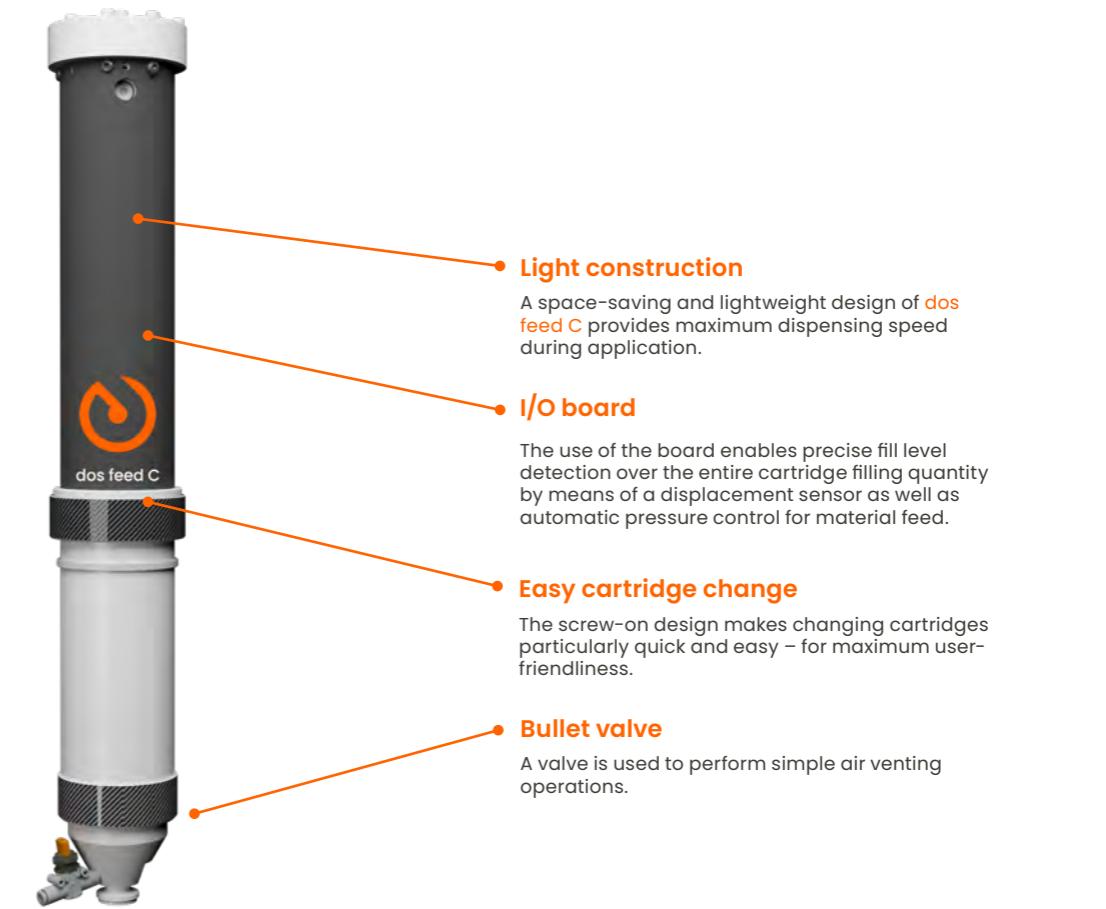
material feeding from cartridges for small series.

For pasty media with a viscosity from 70,000 mPa·s.

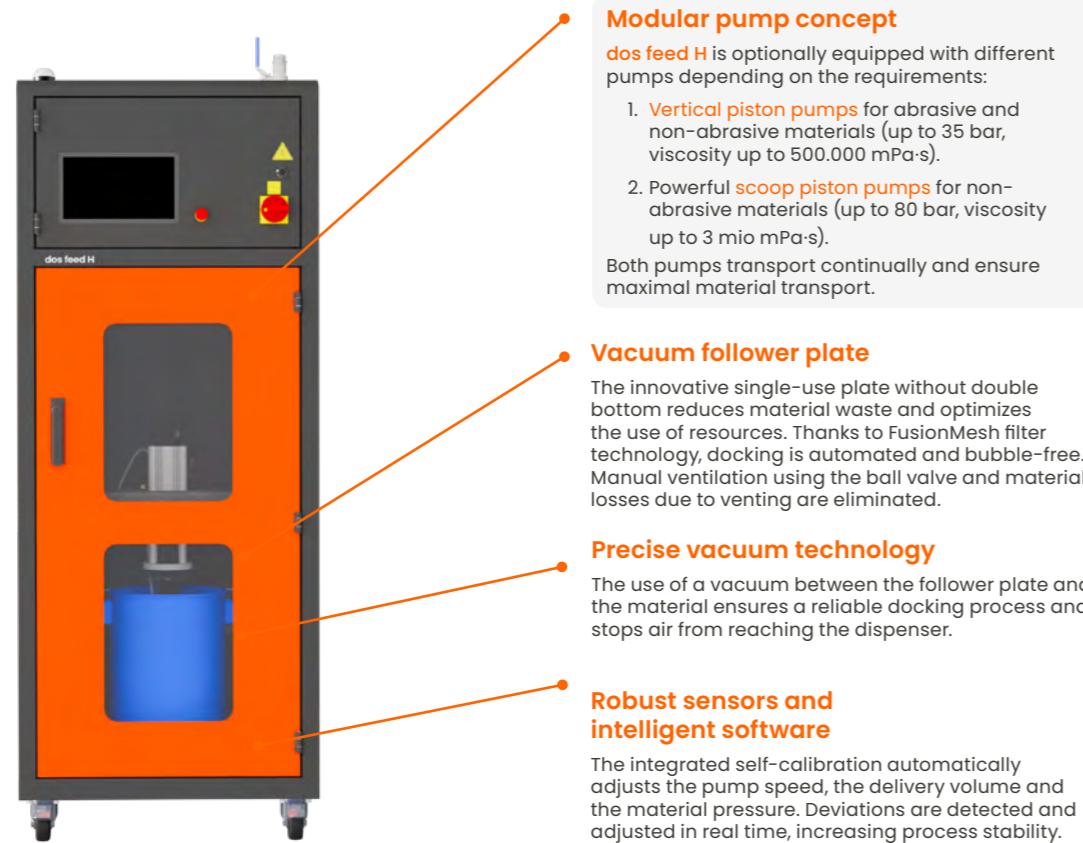


advantages:

- Weight-optimized for precise potting results
- Variable sizes for common cartridge types
- User friendly handling



Variant	S (6oz.)	M (20oz.)	EURO
Compatible cartridges	Semco (others on request)	Semco (others on request)	310 ml external thread (standard Euro) 310 ml external thread (Alu) 310 ml internal thread
Feed volume	180 ml	600 ml	310 ml
Weight	ca. 1.6 kg	ca. 2.1 kg	ca. 1.85 kg
Max. height cartridge holder	485 mm	620 mm	693 mm
Cartridge diameter	45 mm	73.5 mm	51.5 mm



Pump type	Scoop piston pump	Vertical piston pump
Hobbock size (nominal volume)	e.g. 22 litres (standard hobbock)	e.g. 22 litres (standard hobbock)
Feed volume	27 ml/stroke	24 ml/rotation
Electrical supply	230V AC (L-N-PE) / 16A	230V AC (L-N-PE) / 16A
Pneumatic supply	Constant 6 Bar, class 5 DIN ISO 8573-1	Constant 6 Bar, class 5 DIN ISO 8573-1
Dimensions (lxwxh)	1C: 700 x 600 x 1802 mm 2C: 1400 x 600 x 1808 mm	1C: 700 x 600 x 1802 mm 2C: 1400 x 600 x 1808 mm
Weight	1C: ca. 155 kg 2C: ca. 300 kg	1C: ca. 160 kg 2C: ca. 320 kg
Control system	Beckhoff Automation	Beckhoff Automation

dos feed H

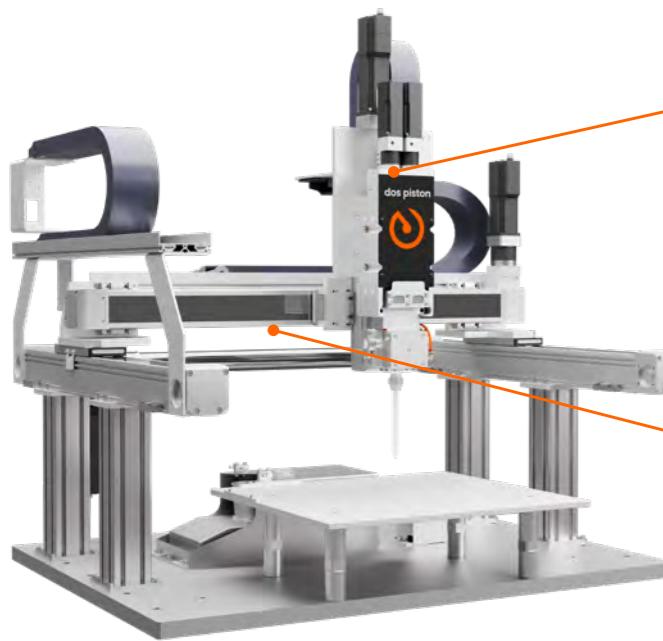
material feeding with maximum material efficiency.

For abrasive and non-abrasive material from 70.000 mPa·s.

advantages:

- Efficient material utilization of up to 99.6 %
- Flexible use pumps
- Maximum process reliability





- **Maximum integration and compatibility**

The **dosmatix** material feeding systems can be easily integrated. The universal adapter plate enables flexible and safe installation of the **dosmatix** dispensers.

- **dosmatix all-in-one solution**

The **dos inline** is available in three different sizes for external dimensions and travel range, allowing it to be optimally adapted to different components and the placement of workpiece carriers.

Variant	S	M	L
Dimension (lxwxh)	1250 x 1250 x 1300 mm	1500 x 1500 x 1300 mm	1750 x 1750 x 1300 mm
Weight	ca. 529 kg	ca. 650 kg	ca. 880 kg
Travel area XYZ*	500 x 305 x 300 mm	750 x 555 x 300 mm	1000 x 805 x 300 mm
Max. traverse speed		600 mm/s	
Dispensing speed		35-50 mm/s	
Repeat accuracy		0,05 mm	
Max. Loading		25 kg	
Voltage supply	230 V (Single-phase alternating current)		
Control system	Beckhoff Automation		

* in component with **dos piston M** dispenser and **dos prep** material preparation

dos inline

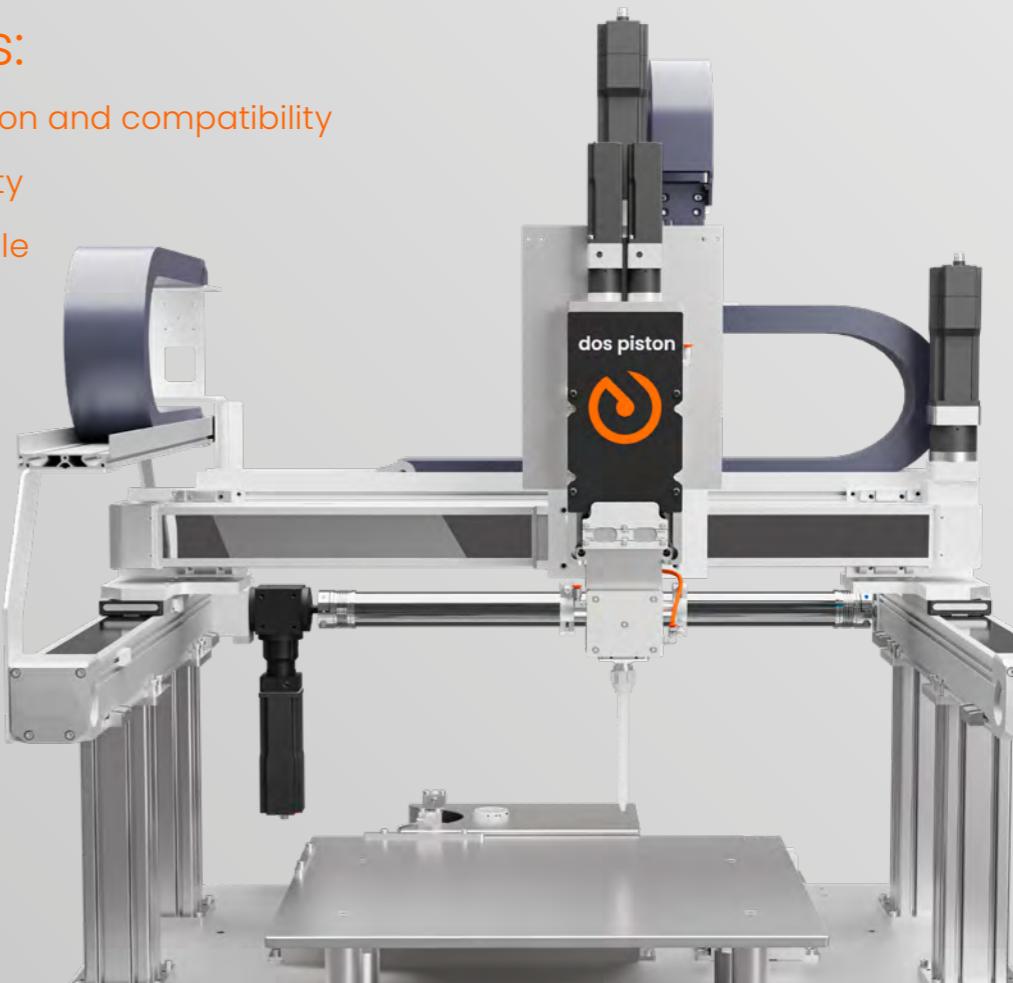
modular axis system as integration module.

For abrasive and non-abrasive materials up to 70.000 mPa·s.



advantages:

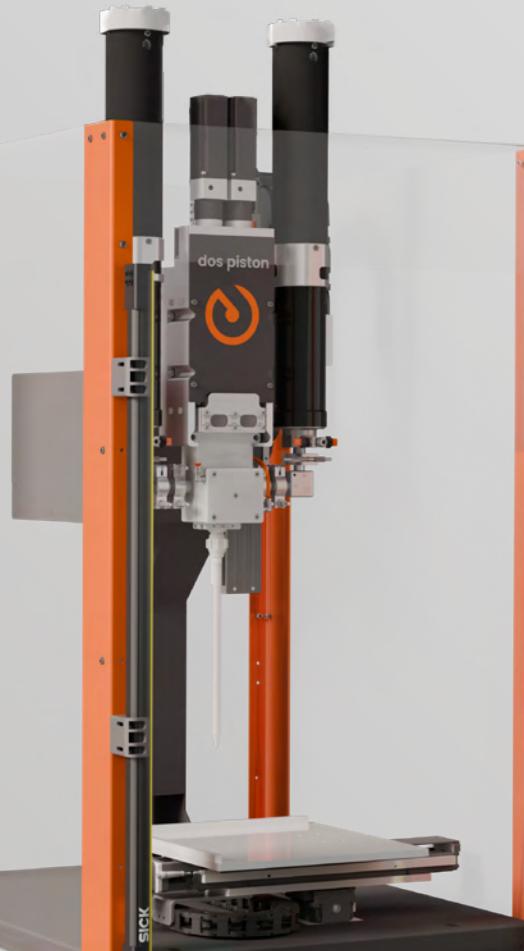
- Maximum integration and compatibility
- Optimal integrability
- Scalable and flexible



dos cell light

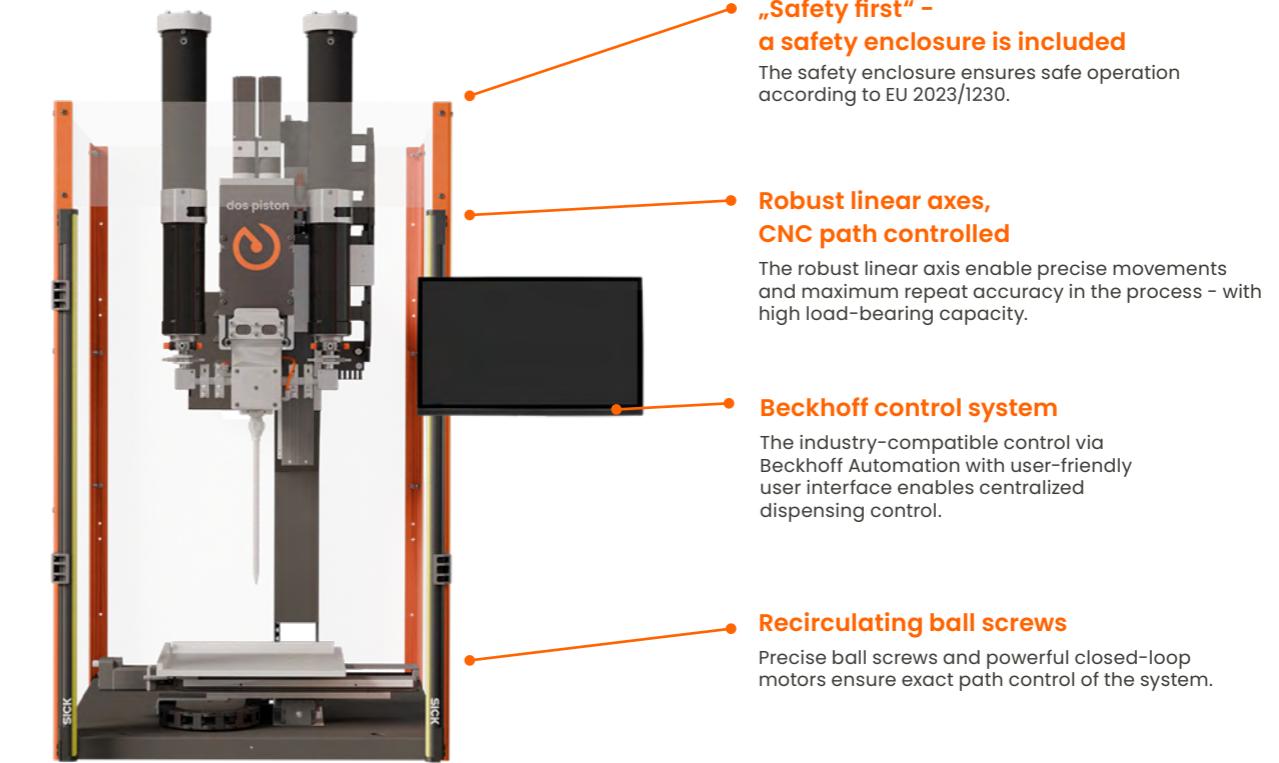
cartesian dispensing robot in compact format.

Axis movement in 3 degrees of freedom.



advantages:

- Powerful complete system
- Compact space, high load capacity
- High-performance control system
- Safe and efficient



dos cell light

Dimensions (lxwxh)	660 x 850 x 1175 mm
Weight incl. dispensing equipment	ca. 100 kg
Travel range XYZ	300 x 300 x 300 mm
Repeat accuracy	+ - 0,01 mm
Precise ball screw	5 mm/rotation
Travel speed*	80 mm/s
Max. Loading	Tool load capacity - 12 kg Workpiece load capacity - 5 kg
Control system	Beckhoff Automation

*Other configurations available upon request



- Automated system solution in three different sizes

The system solution is flexible and can be used for various components and workpiece carriers. In addition, the **dos cell** is available in two versions: with safety door or light curtain. Both versions meet the latest safety standards.

- dosmatix all-in-one solution**

The system enables easy integration of **dosmatix** material feeding systems and is equipped with a universal adapter plate that makes it easier to mount **dosmatix** dispensers. An integrated weighing cell ensures that the material quantities are checked regularly, especially during rinsing processes. The cell solution also offers fully automatic needle measurement.

Optional functions:

- Needle cleaning
- Livestream
- UV curing

Variant	S	M	L
Outside dimensions (lxwxh)	1250 x 1250 x 2300 mm	1500 x 1500 x 2300 mm	1750 x 1750 x 2300 mm
Weight	ca. 800 kg	ca. 930 kg	ca. 1200 kg
Travel area*	500 x 455 x 300 mm	750 x 705 x 300 mm	1000 x 955 x 300 mm
Max. traverse speed		600 mm/s	
Dispensing speed		35-50 mm/s	
Repeat accuracy		0,05 mm	
Max. Loading		25 kg	
Voltage supply	400 V (Single-phase alternating current)		
Control system	Beckhoff Automation		

* in combination with **dos piston M** dispenser and **dos prep** material preparation



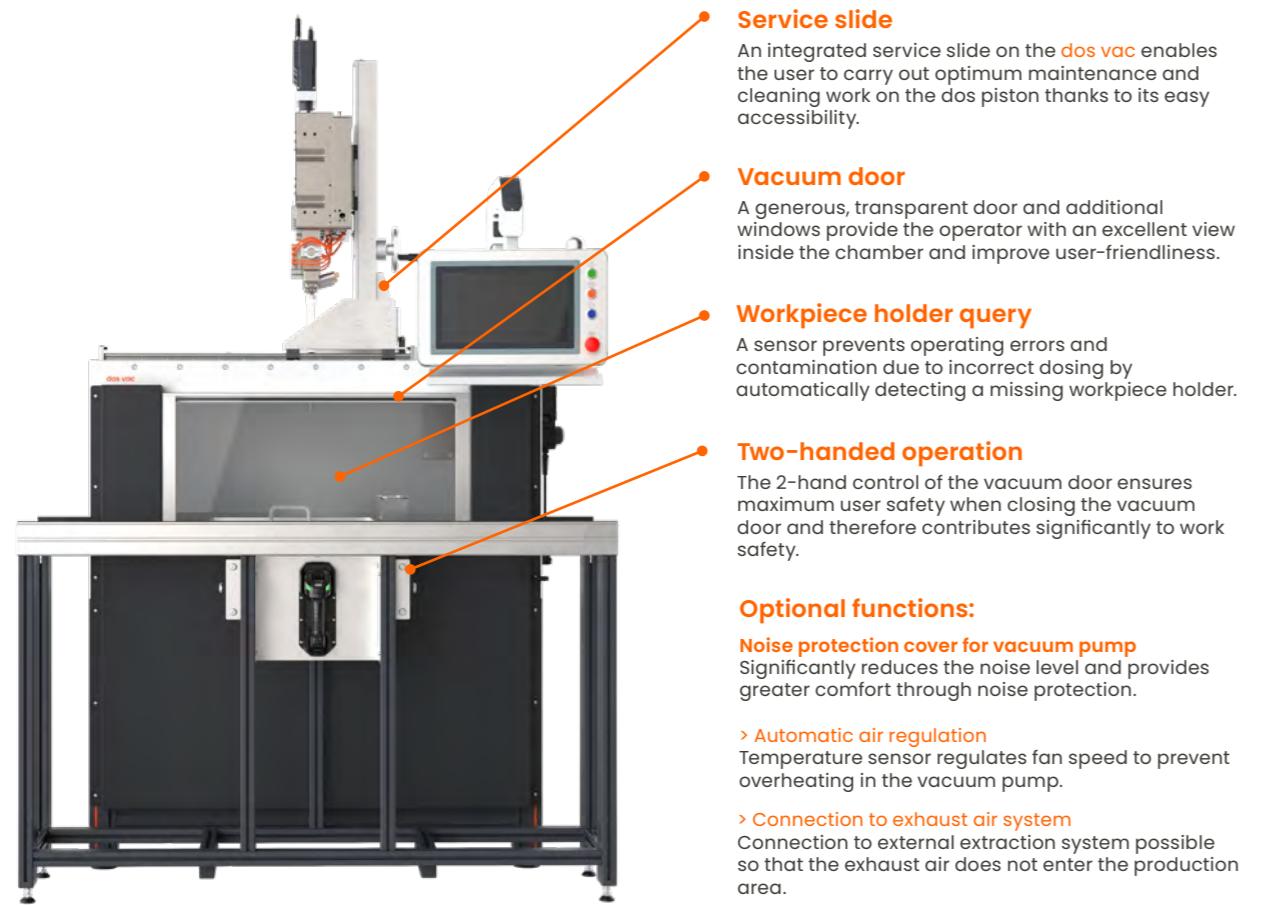
dos cell
modular axis system with protection cell for high performance dispensing.

Dispensing movement in 3 degrees of freedom.



advantages:

- Scalable and flexible
- Latest safety standards
- Maximum integration and compatibility
- **dosmatix all-in-one system solution**



Variant	M	L
Outside dimensions (lxwxh)	1430 x 1450 x 2330 mm	1585 x 1600 x 2480 mm
Outside dimensions chamber	1140 x 790 x 565 mm	1300 x 870 x 685 mm
Weight (excl. vacuum chamber)	ca. 700 kg	ca. 830 kg
Potting area XY*	400 x 300 mm	500 x 350 mm
Travel area XYZ	500 x 320 x 200 mm	600 x 370 x 300 mm
Max. Travel speed	X,Y: 160 mm/s; Z: 50 mm/s	X,Y: 160 mm/s; Z: 50 mm/s
Function	Vacuum potting up to 3 mbar	Vacuum potting up to 3 mbar
Electrical supply	400V AC (3L-N-PE) / 16 A	400V AC (3L-N-PE) / 16 A
Control system	Beckhoff Automation	Beckhoff Automation

* customization possible on request

advantages:

- Maximum functionality and high vacuum sealing
- Maximum production speed
- Comparatively energy-efficient system
- Compact design and modular system structure



dos vac
vacuum dispensing
for high-quality potting.



manual workstations

the perfect starter solution



In the illustration example:
dos workstation + dos piston + dos feed C

Manual workstations offer an ideal starter solution for manual dispensing. Compared to automated dispensing systems, this product is a cost-effective and space-saving alternative for your dispensing requirements.

Depending on the type of material and dispensing quantity, the stand solution can be flexibly combined with various dispensing systems and material feeds.

Combinable products for kinematics dos workstation

Dispenser: dos piston or dos screw

Material feeding systems: Depending on the material quantity and viscosity - dos prep light, dos prep, dos feed C oder dos feed H

integration module

integrated and combined individually



In the illustration example:
dos piston + dos inline + dos prep

Integration components can be easily integrated into existing dispensing systems or production lines as individual products or in combination. They are ideal for replacing, renewing or expanding existing products.

Products for integration

Dispenser: dos piston or dos screw

Material feeding systems: dos prep light, dos prep, dos feed H or dos feed C

Kinematic: dos inline

stand-alone system

automated dispensing systems

potting under atmosphere



In the illustration example:
dos cell + dos piston + dos feed H

Automated dispensing systems as stand-alone systems offer the ideal solution for series products and optimize the potting process through high cycle times and travel speeds.

Depending on the requirements, either an atmospheric or vacuum solution is used. A matching dispensing system and an efficient material feed complete the overall system.

Complete solutions

Dispenser: dos piston or dos screw

Material feeding systems: Depending on material quantity and viscosity - dos prep light, dos prep, dos feed H or dos feed C

Kinematic:

For atmospheric potting: dos cell or dos cell light

For vacuum potting: dos vac

potting under vacuum



In the illustration example:
dos vac + dos piston alternating + dos prep

total
systems
at a glance

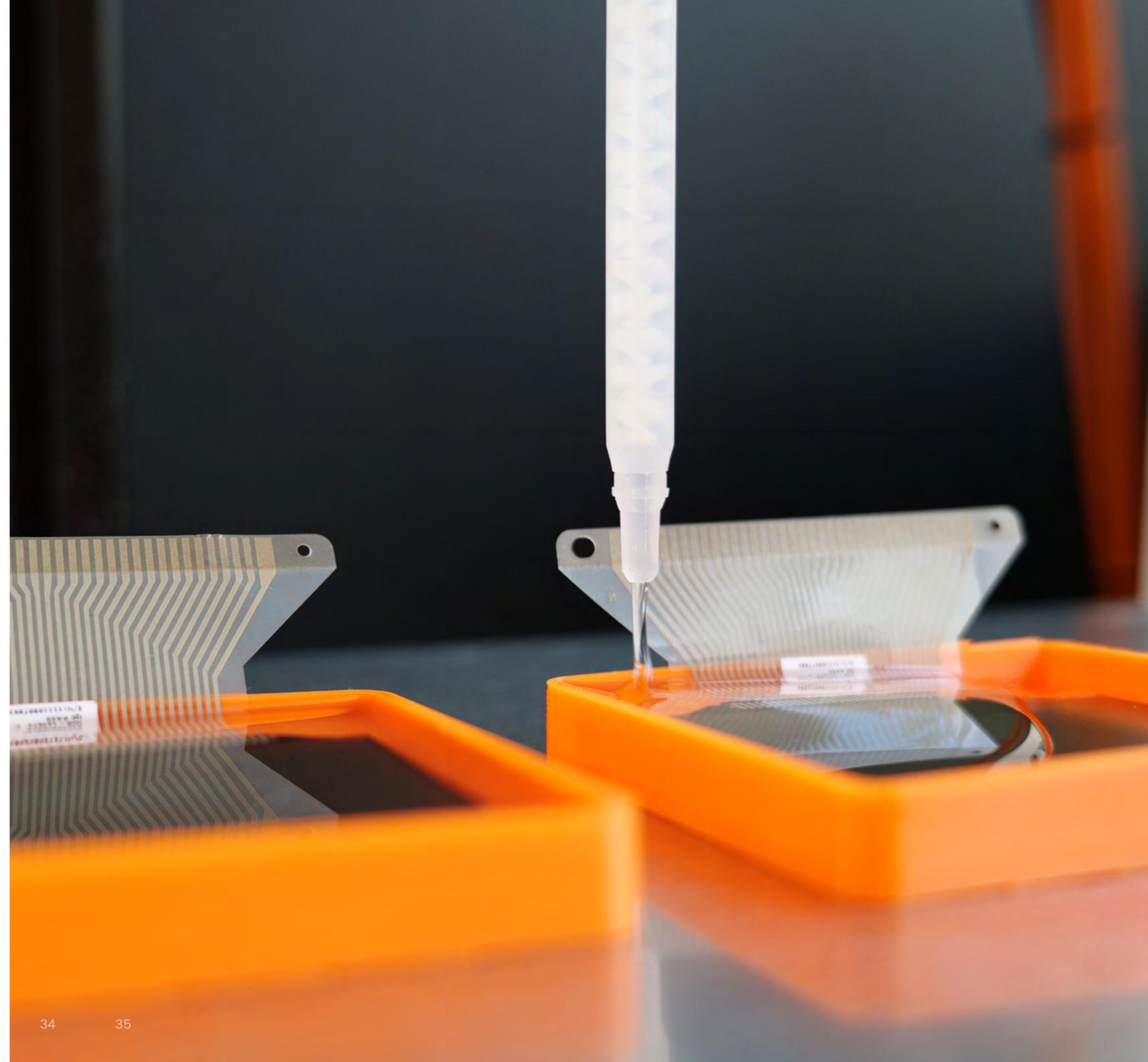
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