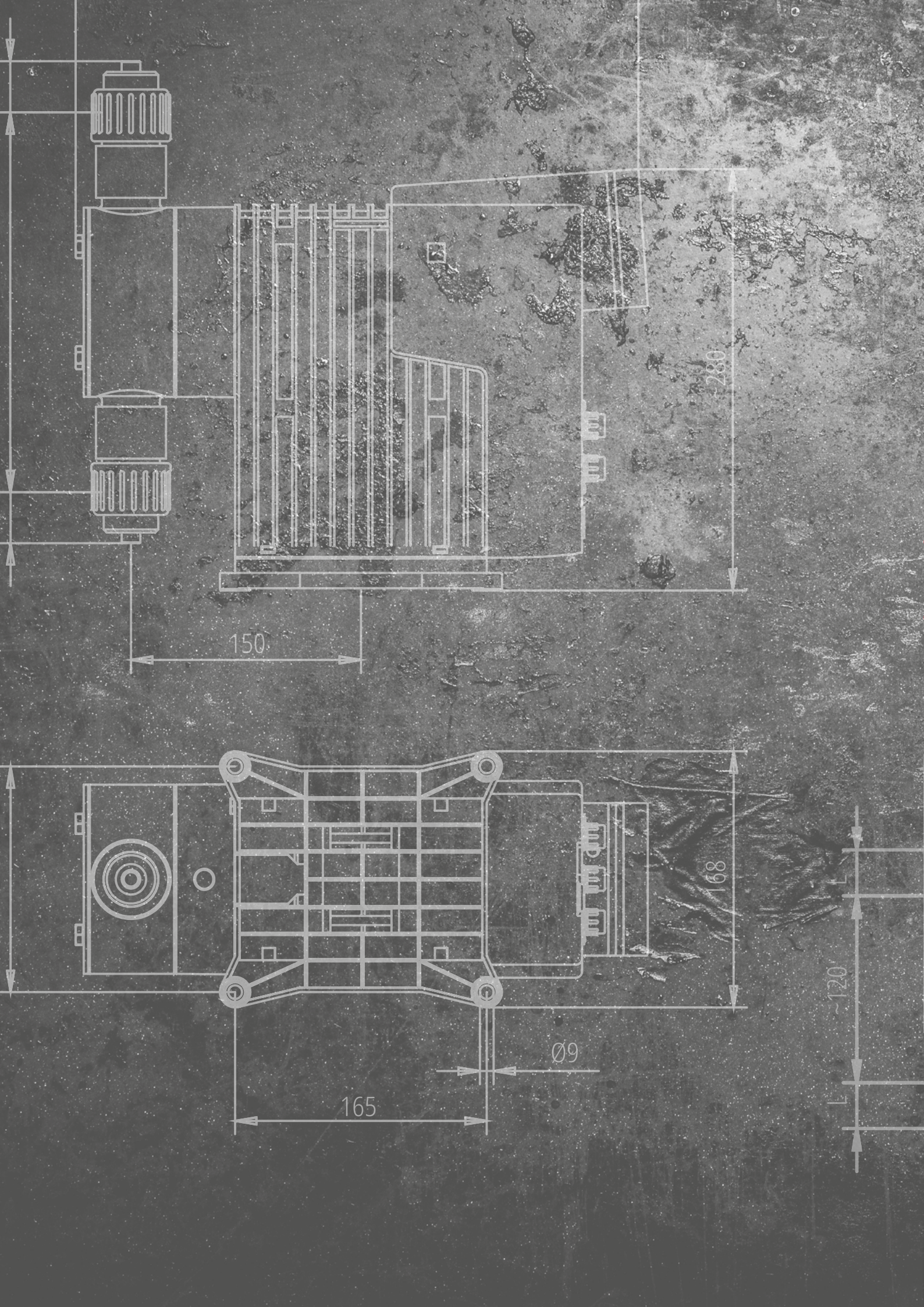




Dosing pumps

Lutz-Jesco GmbH

safety is our concern



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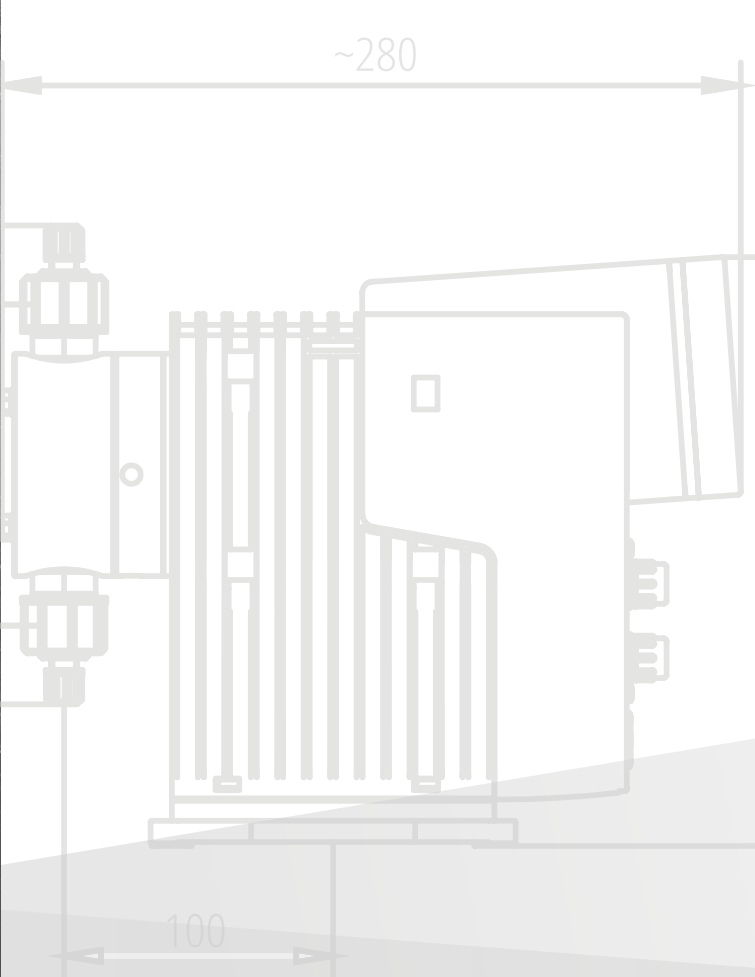
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Motor piston diaphragm dosing pumps

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 - Networked with progress

The future of industrial communication - the Industrial Ethernet

- Industrial Ethernet via MODBUS-TCP or MODBUS-RTU
- Expensive special equipment is no longer needed
- Easy identification of devices through a freely adjustable IP address
- Remote control and diagnosis of the pump is available via the controller (TOPAX MC), PLC and microcontroller
- Enables optimum system automation



Stepper motor-driven diaphragm dosing pumps

MEMDOS SMART LB, LD, LK, LP

Capacity range

- 2.4 – 30.7 l/h, up to 20 bar



Reliable dosing of chemicals

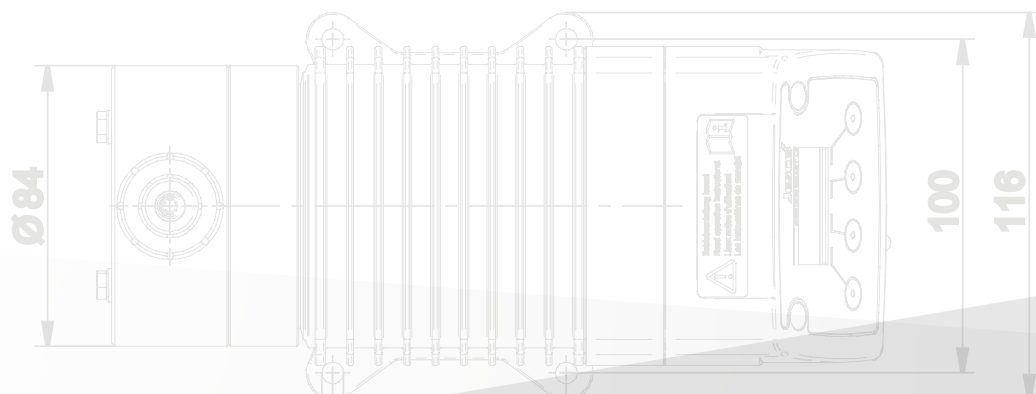
The stepper motor-driven diaphragm dosing pump MEMDOS SMART provides a wide range of attractive solutions for demanding dosing tasks. Its innovative drive enables the dosing pump to dose even the smallest of residual volumes with a high degree of accuracy. Asynchronous running with various speeds of the suction and pressure stroke enables homogeneous and pulse-reduced dosing.

Available in four versions, the MEMDOS SMART provides a range of different functionalities. The capacity range covers 2.4 l/h at 20 bar to 30.7 l/h at 3 bar. Several different materials and connections are available for suction and discharge side, depending on the specific applications. Accessory sets consisting of a hose, injection nozzle and suction line are available to enable optimal results and quick installation.

Wide range of applications

The MEMDOS SMART's drive is fully adjustable. The stepper motor with its wear-free tooth belt drive, ensures a particularly gentle dosing process. The MEMDOS SMART is also available with an optional Ethernet interface. The stroke frequency, number of strokes, runtime, batch and much more can be controlled via the network interface module. Errors and malfunctions are transmitted from the pump.

The compact structure of the MEMDOS SMART means that it requires a small installation surface. This enables its problem-free integration in smaller compact dosing systems. Depending on the requirements, the pump can be fitted in three different positions: standing, oriented to the left or right and fitted on the wall.



Stepper motor-driven diaphragm dosing pumps

MEMDOS SMART LDX, LAX, LPX

Capacity range

■ 2.6 – 182 l/h, up to 20 bar



Reliable dosing of chemicals

The new generation of the stepper motor-driven diaphragm dosing pump MEMDOS SMART X provides a wide range of attractive solutions for demanding dosing tasks. The new stepper motor technology permits high-accuracy dosing of even the smallest volumes. Asynchronous running with various speeds of the suction and pressure stroke enables homogeneous and pulse-reduced dosing. The further development of the Slow mode permits the transport of highly-viscous media at even greater levels of reliability and reproducibility. Available in three versions, the new generation of the MEMDOS SMART X provides a range of different functionalities. Two sizes of the MEMDOS SMART series are available. Possible performance ranges from 2.6 l/h at 20 bar to 30.7 l/h at 6 bar in the first size and 58.5 l/h at 10 bar to 182 l/h at 4 bar in the second size.

Several different materials and connections are available for suction and discharge side, depending on the specific applications.

Accessory sets consisting of a hose, injection nozzle and suction line are available to enable optimal results and quick installation.

Wide range of applications

The MEMDOS SMART X's drive is fully adjustable. The wear-free tooth-belt drive and the positively-driven diaphragm rod of the drive permit especially gentle and even dosing.

The range of inputs and outputs installed on the microprocessor-controlled MEMDOS SMART X and the accessories from Lutz-Jesco available for it, means that the device is able to monitor and communicate with a complete system. The stroke frequency, number of strokes, runtime, batch and much more can be controlled via an optionally-available Ethernet interface.

The compact structure of the MEMDOS SMART X means that it requires a small installation surface. This enables its problem-free integration in smaller compact dosing systems.

Furthermore, the new generation of smart pumps has a full colour 3.5 inch touch screen for easy and safe operation. In addition, alarms and operating states can be easily recognised even from a great distance, so that rapid intervention is possible. To increase the variety and to avoid assembly work, the pump has a removable foot that can also be used for wall mounting. The new Smart pumps achieve even more flexibility with a display that can be turned to the left or right, which can be ordered ex works.



Solenoid-driven diaphragm dosing pumps

MAGDOS LB, LD, LA, LK, LP

Capacity range

■ 0.5 – 15 l/h, up to 16 bar



Reliable dosing of chemicals

The solenoid-driven diaphragm dosing pump MAGDOS stands for dosing without compromises. Thanks to a number of the various pump types there is the right individual solution for every application, also for the highest demands.

The power ranges cover from 0.36 to 13 l/h with back pressures up to 16 bar. Double-ball valves ensure exact dosing. The dosing power can be adapted by varying the stroke frequency manually, via an external control contact or using a 0/4 – 20 mA signal.

Several different materials and connections are available for suction and discharge side, depending on the specific applications.

Accessory sets consisting of a hose, injection nozzle and suction line are available to enable optimal results and quick installation.

Well thought-out down to the smallest detail

Material consistency from the suction line to the injection nozzle

- Available in all common materials
- Makes operation easier
- Increases operating safety

Easy handling

Thanks to the sturdy, maintenance-free solenoid drive, the media being supplied (acids, alkalis, coagulants and flocculants, for example) are reliably and accurately dosed.

The MAGDOS does not just impress with their elegant design. The MAGDOS is available with a graphic display and multi-language menu. This, together with the operation via the integrated keyboard, ensures easy handling.

The MAGDOS is also available with an optional Ethernet interface. The stroke frequency, number of strokes, runtime, batch and much more can be controlled via the network interface module. Errors and malfunctions are transmitted from the pump.

The compact structure of the MAGDOS means that it requires a small installation surface. This enables its problem-free integration in smaller compact dosing systems. Depending on the requirements, the pump can be fitted in three different positions: standing, oriented to the left or right and fitted on the wall.





Motor-driven diaphragm dosing pumps

MEMDOS LB, LA, LP

Capacity range

- 4 – 1020 l/h, up to 16 bar

Reliable dosing of chemicals

The motor-drive diaphragm dosing pump MEMDOS stands for robust quality and reliable dosing results.

The wide range of different motors available means that it can be deployed in nearly any area.

We provide pumps for a range of contexts ranging from simple applications to integration in complex plant systems. The MEMDOS series also contains a number of different versions which can be deployed in explosive atmospheres.

Two sizes of the MEMDOS series are available. Possible performance ranges from 4 l/h at 16 bar to 146 l/h at 5 bar in the first size and 114 l/h at 10 bar to 1020 l/h at 3 bar in the second size.

Thanks to the sturdy tappet drive with manual or automatic capacity adjustment, the conveyed media such as acids, lyes, coagulants and flocculants are dosed reliably and precisely. The MEMDOS can also be fitted with a double-diaphragm system. Then uncontrolled leakage of media is avoided even if the dosing diaphragm wears out.

Versatile and flexible

The MEMDOS LP can optionally be fitted with a MODBUS Ethernet interface. It is deployed if integration of the pump in controls or control circuits or integration in a sophisticated automation network is required.

MEMDOS MR/ZMR

Capacity range

- MEMDOS MR, 440 – 990 l/h, up to 5 bar
- MEMDOS ZMR, 55 – 990 l/h per dosing head, up to 10 bar

General Overview

- Wide variety of materials in plastic and stainless steel
- Three-phase and alternating current drives
- ATEX versions are available for Zones 1 and 2
- Different dosing head sizes and materials can be combined on one dosing pump



LP



LA



LB



MR



ZMR



Motor-driven piston dosing pumps

FEDOS E/DX, REKOS KR/ZKR

Capacity range

- FEDOS, 0.17 – 31.5 l/h, up to 100 bar
- REKOS, 9 – 840 l/h, up to 200 bar

General Overview

- little dependency on backpressure
- Linear development of the dosing quantity according to the stroke length
- Also suitable for frequency converter operation
- Different capacity ranges can be combined (only double head pump REKOS ZKR)



Motor piston diaphragm dosing pumps

MEMDOS KMS/ZKMS

Capacity range

- MEMDOS KMS, 6.3 – 3072 l/h, up to 25 bar

General Overview

- During the development of the MEMDOS KMS, a focus was placed on ensuring the following advantages for the user:
- Quick diaphragm change possible
- No zero-point correction with dismantling of the piston flange required
- The rational structure requires only a minimum of spare parts storage.
- The addition of a second dosing unit to the drive with an identical or different capacity range produces a double head pump, the MEMDOS ZKMS.
- Thanks to its symmetrical form, the piston flange can be installed on the left-hand or right-hand side of the simple pump. This ensures an economical and compact system design.
- Due to the installation of only four stud bolts, the dosing pump can be converted from manual stroke adjustment to electrical stroke adjustment.



- For operation, motors with a multi-range voltage (220 – 240/380 – 420 V, 50 Hz; 440 – 480 V 60 Hz), a high protection class (IP55) and a high insulation class (F) are used. Special motors (ATEX) on request.
- TÜV-checked pressure relief valves are integrated in all pumps; these prevent damage to the pump and the periphery. The pressure relief valves have been selected to match the pump capacity and the desired maximum pressure in the system.

Peristaltic pumps

Capacity range

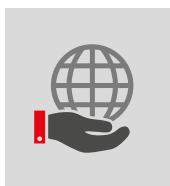
- 2800 – 9000 ml/h, up to 2 bar

General Overview

- Different operating modes
- Rotor speed is maintained exactly at the set value
- Can be installed in a control cabinet



Service



Lutz-Jesco is available to you as a reliable partner with a worldwide network of competent representatives for all service questions relating to our products.

Customer-oriented action extends from advice to sales and after-sales service. To ensure that you are on the safe side, we offer you not only high-quality products but also comprehensive services.



Technical Support | Commissioning | Maintenance | Servicing | Repairs in the factory | Material Service | Customer Training courses



Do you have questions about our services?

Our experts will be happy to advise you:

service@lutz-jesco.com | Telefon +49 5130 5802-30



Order no. P0002EN | State of the art 09.2024 | Subject to technical changes



Lutz-Jesco GmbH

Am Bostelberge 19 | DE-30900 Wedemark | Telephone +49 5130 5802-0 | info@lutz-jesco.com | www.lutz-jesco.com