



WEDA®

We care about pigs

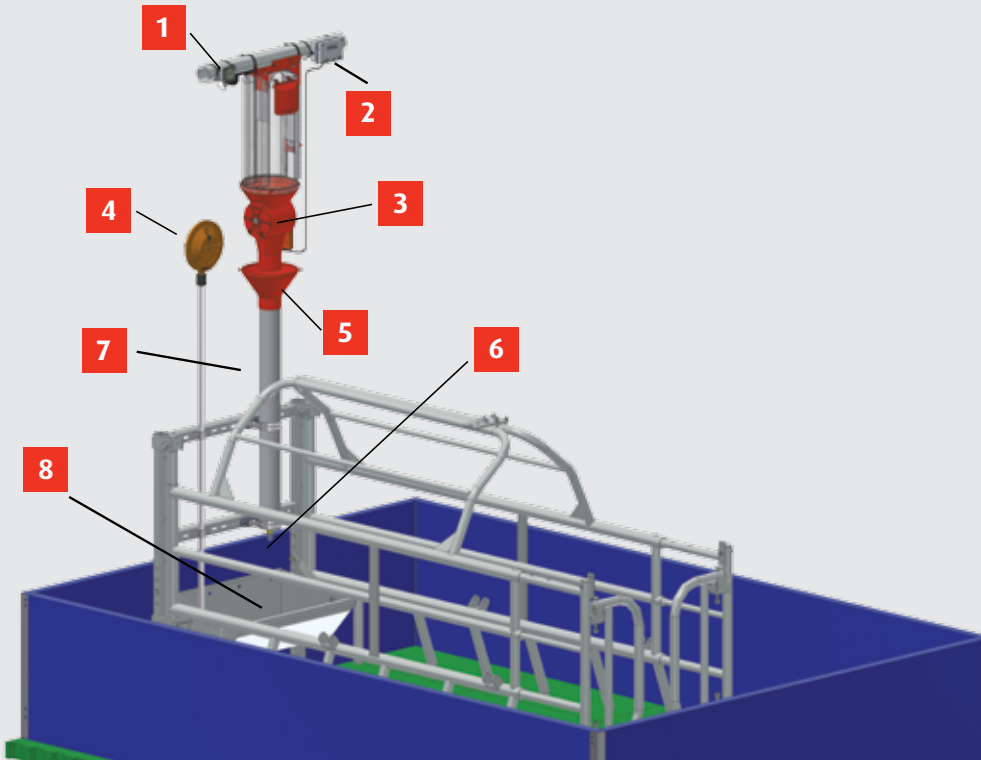
www.weda.de

OptiMum





Sustaining the physical condition



- 1 Smart.Light (optional)
- 2 AB1 connection box
- 3 OptiMum with rotary valve
- 4 Aqua-Level (optional)
- 5 Funnel
- 6 Pendular sensor
- 7 Outlet pipe
- 8 Trough

Optimum care for suckling sows

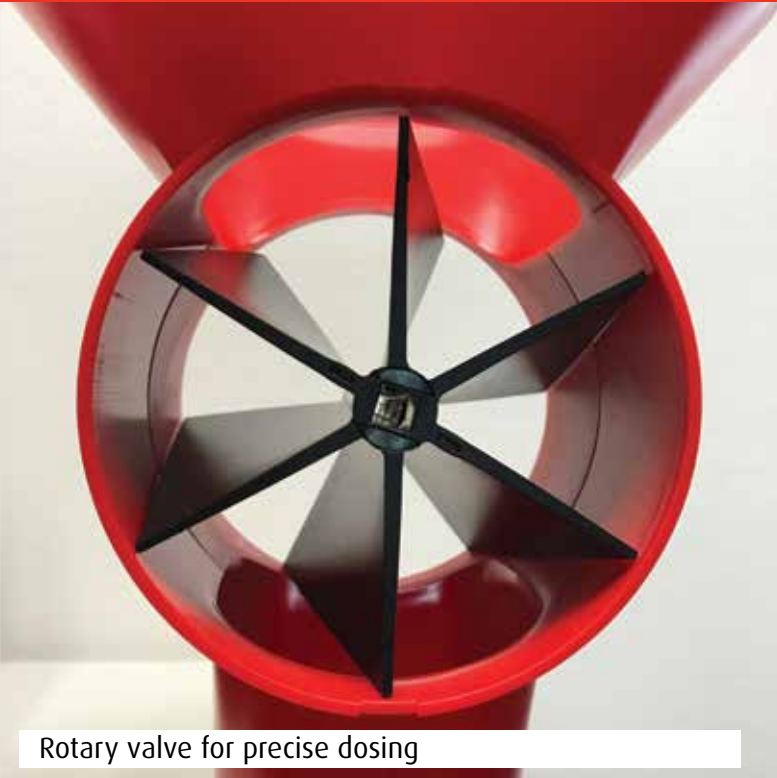
In houses for suckling sows, precise and regular feed provision is particularly important for sustaining or improving physical condition. Studies and long-term experience also demonstrate that a steady provision of small feed quantities increases feed intake and consequently milk production in sows. The latter in turn has a positive impact on piglet growth.

With OptiMum, WEDA has developed a dosing system for the farrowing house featuring a rotary valve which facilitates taking full advantage of these benefits. The OptiMum system facilitates precise, regular feed provision and thus considers the feed requirements of individual sows. The result is a sustainable balance of animal welfare, profit and efficient work.

The OptiMum system can also be installed below the volumetric dispenser of any existing dry feeding installation and regulate feed dosing according to the sows' individual needs from there. To optimise feed intake, the OptiMum system regularly dispenses the feed in small portions. Its great advantage: The feed in the trough always remains fresh.

- More precise feeding of small, needs-based portions
- Increased feed intake rates
- Improved condition of the sow
- Increased milk production
- Retrofitting of existing dry feeding installations possible
- Steadily fresh feed in the sow trough

Simple assembly



Rotary valve for precise dosing



OptiMum with pellets and funnel

- **Time savings since troughs require cleaning less frequently**
- **Simple assembly and installation**

The matter of hygiene is also not neglected with the OptiMum system: The feed in the doser is dry, preventing excessive soiling. Furthermore, due to small feed quantities and needs-based dosing, little to no feed remains in the trough for longer periods of time.

We recommend installing a funnel underneath the OptiMum system. The funnel facilitates simple removal of the system for cleaning purposes and additionally provides easy and quick access to the outlet pipe underneath, which can then be cleaned easily and quickly.



Lightening the workload



Practical solutions

As with all WEDA feeding systems controlled via the proprietary WEDA software Excellent 4PX, the OptiMum system can also be remotely controlled via W-Mobile using a smartphone. This facilitates for example increasing or reducing the sows' feed quantities via W-Mobile or alternatively at the feeding computer itself as required.

To provide the stable staff with a better overview in the stable, the Smart.Light can simply be connected. This indicates the status of the specific dosing unit and can be controlled via the Excellent 4PX. The table on the right shows the possible states of the sow's condition. The feed quantities are also displayed clearly and colour-coded on the computer.

Another clear benefit of the OptiMum system: the electronics (computer, transformer etc.) are not installed in the stable and you do not need a 230V socket in the compartment. Instead, the OptiMum system electronics are mounted in the central aisle and are thus not exposed to any risk of damage from ammonia.

The feeding computer is located in the office of the plant, protected from any harmful stable influences.

- **Optional: Smart.Light**
- **Compartment electronics are located in the central aisle**

| Statuses of WEDA-Smart.Light | | |
|------------------------------|----------------------------|--|
| Off | Sow has picked up feed | system active |
| Yellow | Check animal | e.g. only 60% to 80% of the feed were eaten by the sow |
| Red | Attention animal control!! | e.g. less than 60% of the feed were eaten by the sow |



- **Optional: compartment push-button**
- **Optional: timing program for Aqua Level**

For the OptiMum dosing system, an optional compartment push-button is available. It gives house staff the opportunity to start a feeding block at all dosers in the compartment. This feature is mainly useful when working behind the animals is necessary and all animals are supposed to move to the trough (e.g. when scraping up faeces). The option for house staff to initiate feeding is also helpful to facilitate animal control.

Another option is the timing program for the Aqua Level. It adjusts the water level during feeding so that the water in combination with the dry feed does not result in a "feed soup" but in feed mash instead. After feeding, the water level is regulated back to the initial state.



Mobile data transmission



Modern control technology

The OptiMum dosing system is completely controlled by the WEDA feeding computer Excellent 4PX. In the mornings, it dispenses a small feed portion of ca. 115 g at each doser at a preset time. When the sow gets hungry, it stands up and eats everything in the trough. Once it hits the integrated pendular sensor underneath the outlet pipe with its nose while searching for more feed, the sensor reports the sow's additional feed requirement to the feeding computer. If the sow has allotted feed left according to the programmed feed curve, the system dispenses another portion of feed. If there is now more feed allotted to the sow, the trough remains empty.

In the OptiMum dosing system, the pendular sensor is installed beneath the outlet pipe since this is where, according to experience, sows will most frequently search for additional feed. With separately installed sensors, sows often do not comprehend the sensor's function and therefore cannot request additional feed. The result is a significantly reduced feed intake.

- **Control via WEDA Excellent 4PX**
- **Pendulum sensor for natural foraging behaviour of sows**
- **Remote control via mobile devices (W-Mobile)**

Automatic feeding



- Any number of feed blocks
- Freely adjustable feeding times
- Possibility to feed sows according to a feed curve
- Reporting function
- Management of all data in the control computer or via mobile devices

With the OptiMum system, it is possible to operate any number of feed blocks depending on the feed curve. Feeding times can be set freely with the OptiMum system. This way, sows can take in fresh feed in small portions over the course of the day, which positively impacts overall health and milk production. Feeding sows according to a preset feed curve is also possible. All feed quantities are registered in the computer. In the event of larger deviations, the farmer optionally receives a report, e.g. via e-mail.

With the OptiMum system, feeding can be adjusted to the piglets' growth cycle. This means that as the piglets grow, the feeding frequency is increased. At the day of the birth, for example, the sow will take in little to no feed. During the first days after the birth, the sow is supposed to get up as little as possible in order not to endanger the newborn piglets more than necessary. The number of feeding portions is therefore reduced, but the feed quantities are increased. After a few days, once the piglets are agile enough, the feed quantity per feeding is reduced and the feeding frequency is increased.

08_19.EN

All information is subject to
change at any time.



We care about pigs

www.weda.de



WEDA
Dammann & Westerkamp GmbH
Am Bahnhof 10 · 49424 Lutten
Germany

Phone: +49 4441.8705.0
Fax: +49 4441.5500
Email: info@weda.de
Internet: www.weda.de