

# **ENSILING EQUIPMENT**





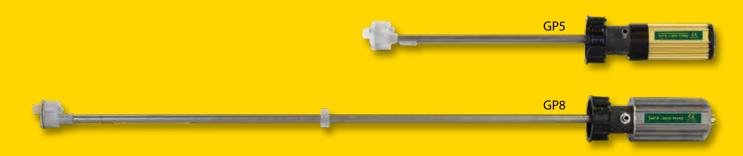


## **Ensiling**

Serigstad has developed and produced ensiling equipment for more than 25 years, and as a result we have great experience and understand the importance of precise and safe dosing. We offer a wide selection of user-friendly and precise ensiling equipment for the production of silage and for use in a TMR Mixer.

### **Gear-pumps – GP5 and GP8**

Serigstad gear-pumps were first developed in the early 2000's and are known on the market as being very reliable and versatile. The gear-pumps can be placed directly into a 200-litre barrel or a 25-litre can, but can also be placed in an IBC with a special adapter. The gear-pumps are available with a capacity of 5 and 8 L/min free flow, and as a result are well suited to harvesting equipment with low to moderate capacity. The unique feature of the gear-pumps is that they can reverse the flow, thereby emptying the hoses and preventing any dripping. All gear-pumps can be used with SmartFlow, while manual control is only for GP5.



#### **Diaphragm pumps - MP12 and MP17**

Serigstad diaphragm pumps are easy and reliable pumps that work with a high pressure and large capacity. Unlike the gear-pumps which are placed directly in a barrel/can/IBC, the diaphragm pump uses a riser which is placed into a barrel or an IBC. The diaphragm pumps are available with a capacity of 12 and 17 L/min free flow and are therefore well suited to harvest equipment with moderate to high capacity.



#### **GP5** with manual control

The gear-pump with 5 L/min capacity can be run using manual control. This is an easy, safe, and reasonably priced solution. The solution consists of small box with an on/off switch with a possibility of reversing the flow, and a flow limiter which is placed on the hose; the flow limiter is operated manually.



#### **SmartFlow - control system**

SmartFlow is a very user-friendly and precise control system, for use with Serigstad's GP and MP series of pumps. Automatic start/stop of the pump using signals from the tractor, as well as automatic regulation of additive towards a set amount, makes the ensiling process highly automated.

SmartFlow consists of a control unit and a base unit which communicate wirelessly. The base unit acquires signals from the tractor using the ISO11786 connection, and using those signals automatically starts and stops the pump. Parameters like PTO, speed and 3-point hitch can be activated or deactivated based on need. If the tractor does not have the ISO11786 connection, a 12V cable will be used for power; a limit switch with a coil spring can be used to signal automatic stat/stop of the pump.

The base unit regulates and powers the pump, and consists of a flowmeter, an electrical shut-off valve. It also includes quick-couplings, which makes installation and movement between different machines very easy. Smartflow automatically regulates dosing for a steady and correct flow for each run, and it adapts if the time deviates from the last run. Amount delivered and type of additive is noted in the log and can be stored under customer names.









MP17 with SmartFlow





KPL. SMARTFLOW FOR GP5 FAT INKL. ISO 11786 KABEL





KPL. MP12 MED SMARTFLOW INKL. ISO 11786 KABEL



#### **Nozzles and spray booms**

Serigstad has a wide selection of nozzles and spray booms for round balers, silage trailers and self-propelled forage harvesters.

Complete spray boom for round baler, placed between the rolls in a fixed chamber baler for dosing inside the chamber.



Complete spray boom with 2 or 5 plastic nozzles, for placement above the screw conveyor or header on the harvesting equipment. The spray boom is available in two sizes, 60 cm length with two spray nozzles or 120 cm length with five spray nozzles. Nozzles in grey and black are the standard nozzles for the spray boom.



Complete plastic spray boom with 1 mm holes, for placement above the screw conveyor, the header on the harvesting equipment, or alternatively between the rolls on a fixed chamber baler. The spray boom with 1 mm holes is available in the lengths 50 cm and 100 cm.



A manifold with hard metal nozzles is very well suited for use in the chute of a forage harvester and a self-propelled forage harvester. A manifold with plastic nozzles set at a 90° angle can be used with most types of harvesting equipment, and it is a very flexible solution.

#### **Modular spray boom**

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With a modular spray boom, you can set up your own spray boom/manifold solution with the nozzle distance you want. The solution is well suited for placement above the screw conveyor or the header of the harvest equipment.



### **Plastic nozzles**

We have a wide selection of nozzles to meet every need. The nozzle chart shows the capacity of the different nozzles.

