

# First impression about the disc mower Silvercut

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## TRIPLE COMBINATION

In September the SIP put a new model of disc mowers on the market, the so-called triple combination. The prototype, which was this summer already presented to the public on some exhibitions, was tested together with partner magazine "Der fortschrittliche Landwirt" in this year's first haymaking, and here are some first impressions.

The disc mower series has so far included the rear side mowers of 2.5 to 3.25 m working width and two front models of 2.5 and 3.0 m working width. All models are available with tines or cylinder kneading machine. The latest novelties are two triple combinations. In the meantime, 15

pieces of such models known as series 0 are being constructed in Sip. Models Silvercut 800 and 900 will be available for the customers. The first mower has a working width of 8 m and can be equipped with kneading machines. The construction FC has tines kneading machine, the construction RC cylinder kneading machine. The Silvercut 900 with working width of 8.69 m is at the moment available without kneading machine. This model was tested to get some first impressions.

## HIGH WORKING POWER

Silvercut 900 is foreseen for the tractor drive over 120 HP. Regarding the terrain and the parcel expanse it is possible to mow up to 15 ha in one

hour. The rear part of the combination is constructed of carrying frame with two side-placed mowers Silvercut 340. Those mowers have 8 discs and working width of 3.25 m. Four support legs are available for disconnecting the machine. Hydraulic discharging of the pressure on the ground is built in serially; it is operated by the tractor's hydraulics. The pressure is shown on the big manometer which can be seen from the tractor's cabin. The pressure of 110 bars means approx. 150 kg pressure on the ground according to the manufacturer. The cutter bars have middle connection and the inclination of +/- 15°. This enables better ground adaptation and assures sufficient protection of drives with cardan shaft. Two cardan shafts connect the middle

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driving-gear and both angle driving-gears of the cutter bars, they are equipped with slip clutches which soothe the hard strokes. Angle driving-gears have the rpm of 1.000 to 3.000.

**FRONT MOWER**

The Silvercut 300F has seven discs and the working width of tight 3 m. It rounds up triple combination. It is connected by fastening triangle. The drive runs over the middle driving-gear. The cardan shaft, integrated in the carrying frame, drives the angle driving-gear of the cutter bar. Two stabilizers stabilize the oscillation in the fastening point, which is otherwise +/- 9°. Adjusting screws on stabilizers



middle oscillating connection of the rear mowers' cutter bars



collision safety device with neoprene spring



serial quick change of blades



front mower has a mechanic discharging with springs



serial hydraulic discharging of rear mowers

**Technical data**

|                          | Silvercut 800RC/800FC  | Silvercut 900            |
|--------------------------|------------------------|--------------------------|
| Working width (m)        | 8,0                    | 8,69                     |
| Weight (kg)              | 2.24                   | 1.76                     |
| P.T.O. shaft (rpm)       | 1000                   | 1000                     |
| Discs (rpm)              | 3000                   | 3000                     |
| Number of discs (+front) | 14 (+7)                | 16 (+ 7)                 |
| Height of the cut (mm)   | 40 - 70                | 40 - 70                  |
| Tractor power (kW)       | 118 (kneading machine) | 90 (no kneading machine) |

enable equilibration of the greater mass of the machine on the left side. Two circular and adjustable row moulders prevent from driving on the mowed grass.

**CUTTER BARS**

In the last years the Sip has totally changed the construction of the disc mowers. The Silvercut models are, compared to previous models, constructed more robust in many joints. The cutter bars and some other parts are made of 5 mm steel plates. More robust gear wheels run in oil. The discs are protected from obstacles with cut-screws. For its replacement about 20 minutes are needed. When hitting an obstacle the whole cutter bar shifts back for 25° and lifts up at the same time. Specially constructed geometry of flexible cutter bar connection to the carrying frame enables this. When driving over an obstacle the weight of the machine lift the machine into work position. Release power of the safety device is adjusted by pressing the neoprene spring. Quick change of blades is serial with all Silvercut models.

**CONCLUSION**

As the milk price in some parts of Europe has dropped below 20 cents per litre, many farmers are trying to lower their costs and save some money. They do not purchase the latest farm machinery for mowing in order not to spend too much. This is where the Sip's triple combination Silvercut 900 is most suitable, for it offers high working power for reasonable price. Silvercut 900 presents a rational alternative for farmers who require an efficient and powerful machine and are not influenced by West European trade marks.

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SIP official website

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