

Sip rotary tedder Spider 815 Pro:

Red stars from the South

A rotary tedder from Slovenia. A bit unusual but totally applicable for every day use. Read and find out why we were impressed by the South-East European Spider.

A lot of readers are interested in small undertakings, which offer machinery with attractive prices. Here fits the Spider in, the series consists of 5 models altogether. For our driving report we tested the biggest model Spider 815 Pro.

There it is, fire-red and well shaped. Powder-varnished and simple construction makes the first impression, the work itself looks good at the beginning as well. The work is done by eight stars with five tines each; the working width of almost eight metres can be achieved. The rotors have a diameter of 130 cm and can be adjusted to an angle of 16° to 20° for a different spreading-angle.

(1. photo: A simple but efficient rotary tedder from Slovenia: Spider 815 Pro
Photos: Tovornik, Eikel, Brüse)

Seen from inside out the Spider 815 Pro has three cast iron joints on each side, which are properly dimensioned to the present forces.

First there is a double-joint inside because most of the work is done there. In the middle there is a one-sided double-joint and at the end there is a simple joint outside. Rotating points are equipped with greasing spots. A round tube of 8.5 cm diameter and 8 mm thickness is used for a frame.

Over the joints the Spider is folded in three parts with the ew-steering device. The outer part is folded by using a mechanical connection, the central and inner parts are moved by the hydraulic cylinder. Both inner parts stand almost vertically upside in transport position, the outer part folds inwards. This might cause the contact of both wheels of the chassis; it does though not represent a serious

problem. A possible solution would be “agitated” folding; even more elegant solution could be a divider for oil current in the process of folding. Spider's advantage is in cross-joints and finger-joints with low maintenance. All joints of the rotary tedder are well protected against dirt and winding-up blades.

The machine is attached as usual with 3-point-hitch. Unlike other producers Sip bets on chain upper link instead of telescopic upper link. It functions well though it seems a bit instable at the first sight. The lug on the tractor's side is unfortunately too small, bigger tractors could have problems. Otherwise, this solution is safe. The weight of the machine puts enough force on the chain to enable easy drive. Only when braking downhill one might get a strange feeling. The Spider is removed on a stable



double support leg. The cardan shaft can be placed on a proper holder; holders for pipes, cables and wire rope for transport protection are missing though.

Working with rotary tedder makes fun. No matter how much fodder the rotors have to pick up they perform their work clean and leave a good spread-picture. We could hardly notice any heaps of fodder; the flood of material behind the stars was proportionate.

When working, the depth-level is adjusted with upper link or the feeler, which is available as additional equipment (price 350 Euro excl. VAT). We were pleased with the feeler's working. The height adjustment is performed with gradual hole-raster. The feeler and the eight wheels of the chassis are equipped with tyres of 16 x

What else did we notice?

- The machine is protected by a stable tube-frame.
- The tines (steel quality Super "C") are secured against loss and are shorter on the inside for better ground adaptation and quality rake.
- A mark on the feeler is missing.
- Warning plates and lights cost additional 150 Euros.
- Wind-up protections on the chassis and the feeler work reliably.
- The slip-clutch has a release-moment of 1020 Nm, therefore we had no problems even with much fodder.
- Height and width measures in transport position are in accordance



(2. & 3. photos: There could be a contact between the wheels when folding the machine. Normally they move apart after that. Contacts of the tines and wheels cause no damage.)



6.50-8. A defect is that the shift to boundary-line spreading can not be activated hydraulically. Today Sip also offers a central hydraulic adjustment.

The convey-off unit is mechanical and allows a turn of 30°. It gets locked and centred when lifted up and can be secured for transport with a split pin. When lowered the lock-pin is released again.

Shock-absorbers of the convey-off unit are interesting: two flat steels fastened to a spring, which rub against each other, reduce oscillation on both sides. The springs can be adjusted with a screw. This shows the character of the rotary tedder – simple but good.



(4. photo: The stable support leg assures safe removal on less solid ground as well. Folded rotary tedder is really compact and therefore totally stable.)

DATA COMPASS

Sip Spider 815 Pro

Number of rotors	8 pieces
Rotor diameter	1,30 m
Arms per rotor	5 pieces
Working width	7,85 m
Transport width	2,95 m
Wheels of feeler/chassis	16 x 6.50-8
Weight	1085 kg
Tractor power	60 kW/80 PS
Folding	mechanical connection and 1 x ew
Price excl. VAT	10980 €

Manufacturer's data for basic equipment

with regulations.

• Since 1999 the Sip-products in Germany are sold by Mühling, in Austria by Eurostar. Service and spare parts are therefore assured.

Result: The Slovenians offered with the Spider-series interesting rotary tedders to the market. They are



(5. photo: The force for outer rotor-segments is with finger-joints that need no maintenance.)

experienced; so far they supplied many acknowledged manufacturers. In the North part of Germany the machines from South-East Europe are not well known, yet. They make progress in the South of Germany. In our opinion the Spider has good chances to break through; this is also due to the price of 11,400 Euro excl. VAT for the equipped model that we tested.

Christian Brüse

Manufacturer's webpage
www.sip.si