



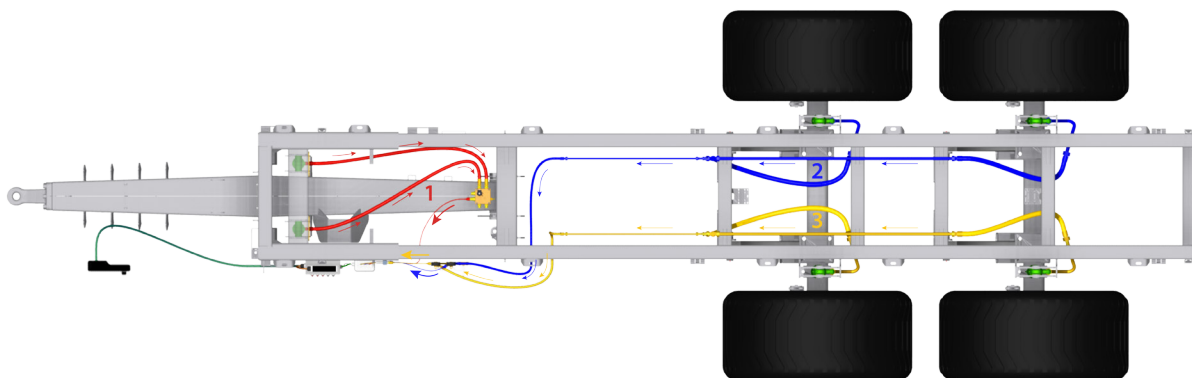
The Belgian company JOSKIN, specialized in muck and slurry spreaders, agricultural trailers and pasture care material, is now proposing a dynamic weighing system for its transport and spreading trailers.

In order to fit a tipping trailer, slurry spreader, multi-purpose trailer, silage trailer or a muck spreader with such a device, the vehicle has to be equipped with a hydraulic hitching suspension and a hydraulic running gear.

Two pressure sensors located on the running gear circuit, as well as a pressure sensor on the hitching suspension, are connected to a computer on the running gear. These sensors send radio or cable signals so that the weight can be displayed on a screen in the tractor cabin. Another screen can be installed on the telescopic loader or in the forage harvester in order to see the load weight at any time. This system is also compatible with ISOBUS and can be controlled through the ISOBUS terminal that replaces in this case the separate screen.

An independent position sensor makes sure the ram of the hitching suspension is always in the middle position.

The assembly of this system, which is designed to fit all vehicles with a hydraulic hitching suspension and a hydraulic running gear, requires no welding works. What is special about this system is that, unlike a system with load cells, there is no need of a substructure with ruler with holes in order to win up to 15cm on the loading height.



3 sensors send signals to the junction box:

- 1 (red): hydropneumatic drawbar suspension
- 2 (blue): circuit of right-hand hydraulic suspension
- 3 (yellow): circuit of left-hand hydraulic suspension.



On a muck spreader, it is also possible to install a flow meter in order to spread more evenly. It works with the regulation of the moving floor speed as well as with the opening angle of the guillotine door, especially at the end of the unloading process. A laser sensor allows to measure the manure height at the door. In this way, a relatively constant flow of material can be sent to the beaters and the spreading precision can be significantly increased.



The dynamic weighing system only costs one third of a system with load cells. Furthermore, it optimally adapts to the different working conditions in the field with an average deviation of max. 2% in comparison with the real value.



*DRAKKAR with transfer auger and dynamic weighing system allowing to comply with the regulations in force when unloading in a semitrailer.*