



## Tyre Inflation Systems



### AIRBOX/drive 2L with digital control Dual line tyre inflation system for field sprayer

#### Advantages of the dual line technology

- Maintenance free rotary unions, no greasing needed
- Tough and durable rotary unions thanks to special seals
- Line system at zero pressure when switched off
- Switchable tyre valves with anti-kickback attachment (i.e. no manually activated ball valves in the rims)
- No loss of tyre pressure if the line comes off
- Long life of rotary unions (only under pressure during adjustment)
- Lines may be disconnected after use
- Maximum user comfort thanks to digital control
- 1,45 Euro/ha savings per operation
- up to 20 % less tyre wear
- up to 10 % less fuel consumption
- up to 20 % more traction power
- up to 6 % more yield
- up to 100 % more mobility



## AIRBOX/drive dual line technology

Tyre inflation systems are particularly useful for sprayers with narrow tyres. Deflection considerably increases the relatively small footprint of the tyres and ensures that the high weight of the tank is distributed more evenly. As well as reducing the road resistance, the result is significantly less soil compaction due to shallower rut depths

The AIRBOX/drive dual line technology works on the principle of air supplied from a static part (stator) to a rotating part (rotor). Pressure-resistant seals on the stator combine with the rotor to form annular ducts. Compressed air is supplied through these annular ducts even while the tractor is in motion.

The rotary union is screwed concentrically to the centre axle onto the tractor wheel bolts using an appropriate bracket. Rotor and stator are mounted with a clearance fit. A thick working line and a thin control line

lead from the rotor to the rotating wheel valve.

The switchable valve with anti-kickback attachment is fitted to the rim and closes promptly if the line comes off, to prevent pressure loss in the tyres.

The system is connected to the pneumatic brake system using a safety valve, so 6.5 bar pressure for the brake system is always guaranteed.

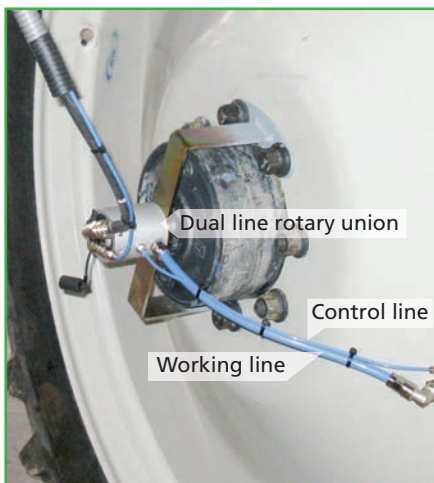
The rotary unions and the entire line system are only under pressure during adjustment. The patented dual line principle guarantees that the tyres are separated after a pressure change and the rotary unions (including seals) run at zero pressure for optimum preservation. This method also ensures that the tyres do not deflate in case of leakages or line tears in the system, providing a high level of driving safety.

The air lines to the wheel centre are fed through a telescopic tube on the mudguard that allows individual adjustment of the lateral distance to the rotating wheel.

The air and control lines are connected to the rotary unions with special quick connectors, so the lines can be disconnected easily when not in use and kept in dummy couplers on the mudguards.

The AIRBOX/drive dual-line technology is easy and convenient to operate using the digital control panel in the cabin.

The adjustable field or road tyre pressures for all connected tyres can be accessed at the press of a single button. Once activated, the system adjusts the tyre pressure in all tyres before switching off automatically. The system can also be deactivated at any time at the press of a button.



## PTG Reifendruckregelsysteme GmbH

Habichtweg 9 · D-41468 Neuss/Germany  
Phone: 00 49 (0) 21 31 - 5 23 76 - 0 · Fax: 00 49 (0) 21 31 - 5 23 76 79  
E-Mail: [ptg@ptg.info](mailto:ptg@ptg.info) · [www.ptg.info](http://www.ptg.info)

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