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"For All Your Hydraulic Needs"

**BUCHER**  
hydraulics

Saving time during unloading

# Parallel and Series Connection of Two Hydraulic Motors

## Versions

- Parallel and series circuit; reversing by using the tractor valve
- Parallel and series circuit with flow divider in parallel operation; reversing by using the tractor valve
- Parallel and series circuit; reversing capability is built into the manifold block

## Function

In parallel operation, the motors produce high torque at half speed. Connected in series, the situation is reversed, i.e. with the same oil supply, the torque is halved, but the speed is doubled.

Depending on the version, the motors can be reversed by means of the tractor valve, or the reversing capability is already built into the manifold block.

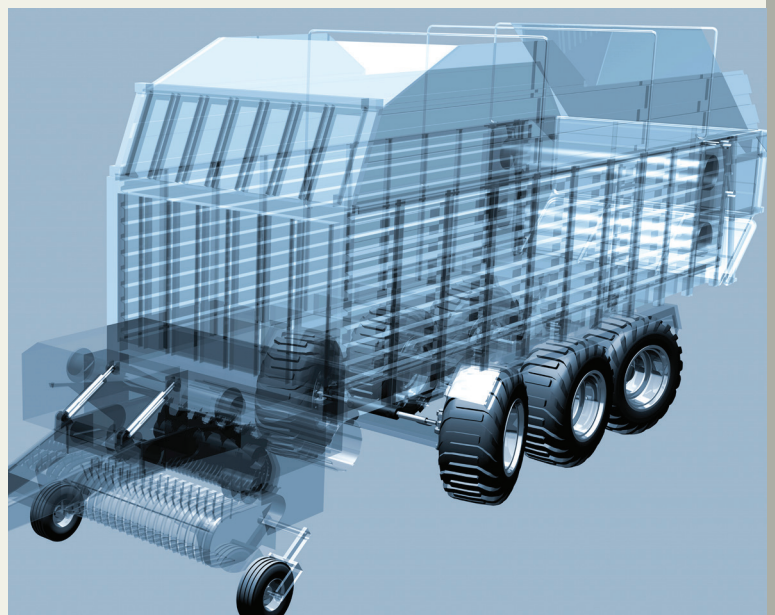
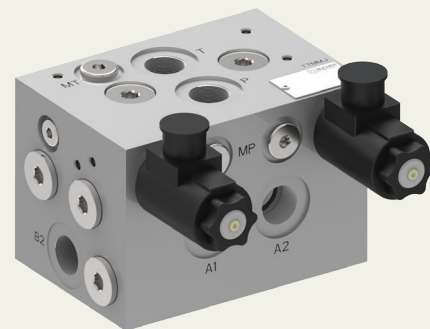
These parallel and series circuits are mainly used to control the scraper floor drive on loader forage wagons and dual-purpose wagons. The material that was picked up (hay/grass, etc.), is usually discharged slowly at the beginning. Towards the end of the discharge operation, the system is switched over to series connection, which enables the remaining material to be discharged quickly. The reversing capability is used to loosen any load that is jammed in position.

## Applications

- Scraper floor drives in loader forage wagons
- Scraper floor drives in dual-purpose wagons

## Your advantages

- Saves time during unloading thanks to the scraper floor's slow-speed and fast-speed functions
- Cost savings from the use of less expensive motors
- Low installation costs
- Few potential leakage points
- Low pipework costs
- Compact construction means easy to incorporate into the machine or to retrofit



Technical data / circuit diagrams

**Variant 1:**  
Parallel and series circuit, reversing capability is built into the manifold block

$Q_{max}$  100 l/min,  $p_{max}$  210 bar  
Reference: STB EGKG REV

**Variant 2:**  
Parallel and series circuit with flow divider in parallel operation, reversing by using the tractor valve

$Q_{max}$  100 l/min,  $p_{max}$  210 bar  
Reference: STB EGKG MT

**Variant 3:**  
Parallel and series circuit, reversing by using the tractor valve

$Q_{max}$  100 l/min,  $p_{max}$  210 bar  
Reference: STB EGKG

