Areas of application



Agriculture

- Tractors
- Self-propelled weed sprayers
- Shredders
- Harvesters
- · Combine harvester
- and many others



Industry

- Self-propelled low loaders
- Aircraft tractors





Forwarders





Forestry

- Special forestry tractors

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Continuously variable, power-split transmission variaDRIVE



variaDRIVE

The new continuously variable, power-split transmission from Pfanzelt

Shunting

In "shunting mode" (approx. ± 7 km/h), there is no switching of clutches.

The direction of travel is changed without switching operations. The driving behaviour corresponds to that of a hydrostat in this range.

Starting from standstill is smooth and jerk-free.

During longer idle times, the hydraulic power section is relieved, and the parking brake is automatically engaged.

Shifting operations

At higher speeds, gears are changed depending on the axle ratio and tyre size:

forward: at approx. 8/20/35 km/h backwards: at approx. 8/20 km/h

Power transmission

The mode of operation of the power transmission at higher speeds (greater than approx. ±7 km/h) corresponds to that of known power-split transmissions.

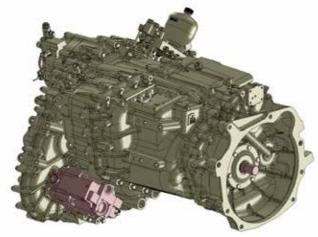
Driving behaviour

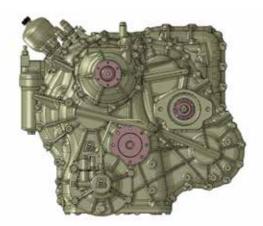
The driving behaviour corresponds to that of known power split transmissions, with the difference that changing of directions smoother and faster. (Corresponds to so-called "hydrostats.") When the final speed is reached, the engine speed can be reduced to approx. 1500 rpm.

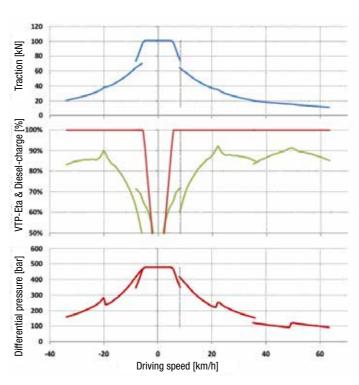
Mode of operation

There are 2 gearshifts and thus 3 travel ranges during forward travel from standstill to maximum speed.

There is 1 gearshift and thus 2 travel ranges when reversing from standstill to maximum speed.







The data can vary depending on the design and be adapted to the application requirements.

Technical specifications

Technical Specifications	
Transmission configuration	Mechanical-hydrostatic, power-split continuously-variable transmission
Transmission input	Input flange: SAE 3 (alternative: cardan shaft)
	Max. input power: 250 kW Max. input speed: 2300 rpm Max. Input torque: 1750 Nm
Driving performance	Depending on axle transmission and tyres, different speed and tractive force variants are possible
	Example 1: Pulling force 80 kN Driving speeds: Forward: 0 to 70 km/h (stepless) Reverse: 0 to 30 km/h (stepless)
	Example 2: Pulling force 100 kN Driving speeds: Forward: 0 to 50 km/h (stepless) Reverse: 0 to 25 km/h (stepless)
	Example 3: Pulling force 150 kN Driving speeds: Forward: 0 to 40 km/h (stepless) Reverse: 0 to 20 km/h (stepless)
Torques/numbers of drives	Ratio between rear axle output and front axle output (36/35): 1.02 (other transmission ratios possible upon request)
	Rated torque all-wheel clutch: 3500 Nm Rated speed front axle output: 3500 rpm
	Rated speed rear axle output: 3700 rpm
	PTO clutch to engine speed ratio (53/55): 0.96 The PTO is designed for the maximum engine power.
Pump drives	Pump output 1: Flange ISO 7653-1985 Profile data splined shaft DIN ISO 14
	Pump output 2: Flange SAEJ744 127-2(C) 2-hole Profile data splined shaft DIN 5480 W35x2x30x16x9g
Dimensions	Length: approx. 1320 mm Height: approx. 760 mm Width: approx. 850 mm

Many parameters can be adjusted to your needs.

Delivery and layout already from one piece.