

Areas of application



- Agriculture**
- Loading vehicles
 - Slurry tanks
 - Balers



- Forestry**
- Forwarding trailers
 - Forwarders



- Special crops**
- Machines for viticulture
 - Fruit and vegetable production
 - Harvesting machines
 - Cleaning machines
 - Cultivating machines



- Construction**
- Dump trucks
 - Hooklift trailers



- Industry**
- Low-loaders
 - Heavy transporters



Your contact person

Wolfgang Bosch
 Tel. +49 (0) 8860 92 17 - 0
 e-Mail wolfgang.bosch@pfanzelt.com

Pfanzelt Maschinenbau GmbH
 Frankau 37
 D-87675 Rettenbach a. Auerberg
 Tel. +49 (0) 88 60 / 92 17 -0
 Fax +49 (0) 88 60 / 92 17 -17
 e-Mail info@pfanzelt.com
 www.pfanzelt.com



powerDRIVE drive system





powerDRIVE drive system

More drive for various areas of application.

The new, hydraulic powerDRIVE wheel drive made by Pfanzelt opens up a new wheel hub drive dimension.

- High maximum thrust
- Proportional drive to move forwards and backwards
- All brake systems possible in combination with wheel hub drive
- Automatic drive deactivation upon braking
- Freewheeling for non-wearing on-road driving
- Simple installation in existing systems

Wet-running multi-plate clutch

1. Nominal clutch closing pressure: 200 bar
2. Can be engaged and disengaged while driving
3. Mechanical overload protection
4. Components don't move when the drive is switched off, so there is no churning loss.

Freewheel speed: 50 km/h

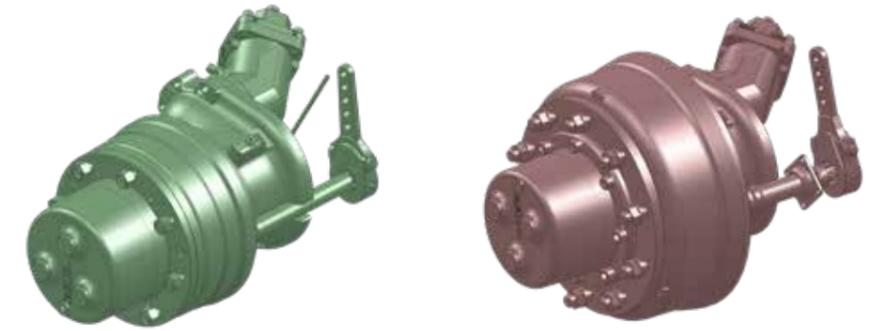
Control unit

The wheel hub drive is equipped with an electrical operating unit in which the driver can control the drive from the vehicle cab. This allows the operator to switch between the simple drive for forward travel and reversing and an uphill assist function. Driving from the towing vehicle is also possible. Here the direction and speed is electronically transmitted from the towing vehicle.



Your advantages

- Modular system:
 - Hydraulic (axial-piston motors)
 - Numerous manufacturers can be used
 - Various absorption volumes are possible
 - Various pressure levels are possible
 - Electric motors are possible
- Possible brake systems for standard drum brakes
 - Pneumatic
 - Hydraulic
 - Spring brake actuator
- Compact overflow oil line
- 12 litres are sufficient as comparatively little oil is required for disengaging and engaging.
- Low space requirement



	wheel motor I	wheel motor II
Suitable for	8-hole rim wheel bolt M18x1.5	10-hole rim wheel bolt M22x1.5
Pitch circle	275 mm	335 mm
Centring diameter	220 mm	280 mm
Hydraulic motor (standard)	80 ccm	126 ccm
Nominal volume flow per motor	50 l/min.	50 l/min.
Nominal volume flow per axle	100 l/min.	100 l/min.
Nominal pressure	350 bar (max. 380 bar)	350 bar (max. 380 bar)
Calculated output torque per motor (with the aforementioned parameters)	5.340 Nm	8.400 Nm
Calculated output torque per axle (with the aforementioned parameters)	10.680 Nm	16.800 Nm
Nominal speed output	52,1 U/min.	33,1 U/min.
Brake (drum)	300 x 90	406 x 120
Max. axle load	80 kN	112,8 kN
Example	Example: <ul style="list-style-type: none"> • Wheel diameter 900 mm • 100 l/min → 8,8 km/h • 350 bar → 23,7 kN per axle 	Example: <ul style="list-style-type: none"> • Wheel diameter 900 mm • 100 l/min → 5,6 km/h • 350 bar → 37,4 kN per axle

