



Profi forwarding trailers

Requirements for modern forwarding trailers vary greatly depending on their application. Pfanzelt offers the most extensive range of forwarding trailers on the market. This offers every user the possibility to individually compose the Pfanzelt Profi forwarding trailers for his requirements.

Technical specs ► Page 72

Convincing technical details:

- Central-spar frame for maximum stability
- Frame extension and sliding axles for optimum weight distribution combined with a high degree of load flexibility
- Licenced for public roads with CoC document (depends on the equipment)
- Powerful loading cranes made for professionals with a reach of up to 10 metres and a hoisting force of 7 m/t with a rapid traverse valve for even faster telescopic extension
- A-column or H-column stabilisers for optimum parking stability even in difficult terrain
- The operating console on the draw bar offers a well organised work station
- Large range of accessories for forestry professionals



Made in
Germany



Professional forwarding trailers live in action.
youtube.com/pfanzeltTV



Pflanzelt Profi forwarding trailer P13 with Z-crane 5388, high seat and radio control

Profi forwarding trailers

Technical details at a glance:



- 1 The large **oil storage tank** is installed in a way that it is protected from damage, and impairment of the field of vision is prevented.
- 2 Very sturdy and powerful **four-cylinder slewing gear** made of cast metal with a high swivel torque.
- 3 **Ergonomic operation** via two mechanical joysticks or control panel for cable and wireless control.
- 4 Optional **drive systems** enable optimum traction in difficult terrain.
- 5 Safety while driving is provided by the **4-wheel compressed air brake system** with spring mechanism.
- 6 **Lubricating, adjustable spherical plain bearings** guarantee a correct straight run of the axle.
- 7 The **Power Link System** guarantees agile crane work, more reach and lifting power.
- 8 A system of **protected hoses** on the complete crane guarantees minimum downtime.
- 9 The bearing arrangement of all locating pins in greasable **bronze bushings** ensures long service life and pressure stability.
- 10 The crane is designed according to the **Crane load class B4** for continuous dynamic load.
- 11 Protected from damage, the **cylinder** of the main arm can be **installed overhead**.
- 12 **The hydraulic hoses are run in a hose shaft** to protect the user at the operating console.
- 13 **Rotary transmissions** maximise the functional safety and service life of the hydraulic hoses.
- 14 **Lashing lugs** serve as attachments for securing loads during on-road transport.
- 15 Space saving **A-column stabilisers** with concealed cylinders ensure a high degree of stability when parking.
- 16 **Operating console** with non-slip standing plate, ladder, and back support for optimum working safety.
- 17 **Steerable draw bar** for top and bottom attachment with protected piston pump mounted on or under the draw bar.
- 18 **A one-man system** for **mechanically locking** the steerable draw bar when driving on public roads.
- 19 The chainsaw and canister are stored neatly and safely. Small items can be put into the tool box.
- 20 Massive and robust **front grilles** for optimum safety during crane operation and when driving on public roads.
- 21 Available **crane lights** turn night into day and always illuminate the work area.
- 22 The electrically actuated **quick-action valve**, supplied as standard, ensures rapid telescopic extension of simple telescopic booms.
- 23 Protected from damage, the **telescopic cylinder is installed inside**.
- 24 Equipped as standard with a powerful **flange rotor** and on request also with a **double pendulum brake**.
- 25 **Various grippers** for every application: Double clamshell bucket, 4-finger grab, earth grab
- 26 The **shiftable bogie axle** guarantees optimum weight distribution for every load.
- 27 The **torsion-resistant central spar** is rated for the highest loads. It ensures perfect off-road handling.
- 28 **Sliding stanchion arrays** ensure safety and easy crane operation with loads of different lengths.
- 29 The **frame pullout** allows the loading area to be extended by up to 2,000 mm in several steps.
- 30 The LED lighting can be folded in when working in standing timber. This ensures greater durability and reliability.

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Technical details that will convince you

Frame

The strong frame structure which is based on a torsion-resistant central spar is the basis for the excellent off-road handling properties of the Pfan-zelt forwarding trailer, even when loaded. The central spar is made of fine grain steels to cope with the highest loads. Besides maximum stability, this design offers maximum ground clearance. The frame is only welded to the crane support in the front area, meaning that the strength of the central spar is not compromised.

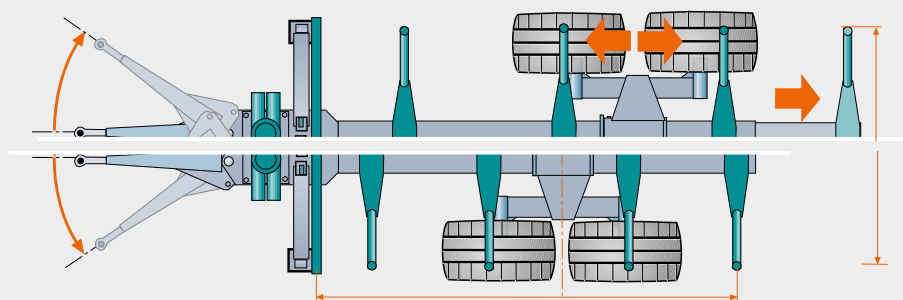
To stabilise the forwarding trailer for heavy crane superstructures, the central spar in the crane mounting plate area is double-walled (not for model P11+). A second pipe is welded into the central spar with a high technical effort.



Sliding axle

The flat bed can be extended by up to 2,000 mm for the transport of various timber lengths by means of an integrated, extensible frame.

The stanchion beams and the axle bogie, which can be moved individually on the central spar, also offer the greatest possible flexibility when loading the forwarding trailer. By shifting the axle bogie, the heavy loads can be precisely matched to the type of tractor, thus avoiding both an excess of the drawbar load and a negative drawbar load.



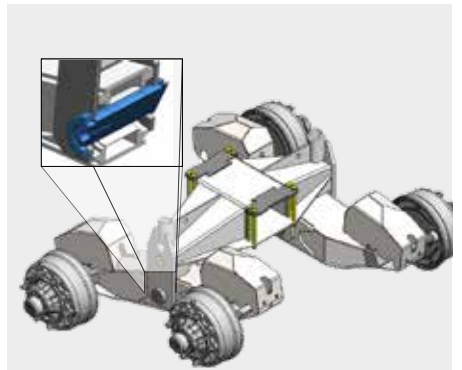


Technology explained in detail.
www.pfanzelt.com

Bogie axle

The bogie axle of Pfanzelt forwarding trailers offers stability during crane operation and the best possible drive characteristics. The large pendulum travel of the bogie axle has a range of up to 394 mm. This enables that the trailer can safely drive over branches and other obstacles.

The even distribution of the ground pressure is another big advantage.



Bearings

The bogie axle is mounted on lubricatable and adjustable spherical articulated bearings. This guarantees true running for many years.



Brake systems

Pfanzelt Profi forwarding trailers are equipped with a brake system as standard. Depending on the trailer size, the braking system is available as a hydraulic or pneumatic system. The compact diaphragm brake cylinders are completely encapsulated with a protective hood. This means that the brake system is protected from damage by branches or the gripper.

Road approval

Travel on public roads is no problem for Pfanzelt machines, even when loaded. Depending on the equipment, a CoC document is available for 25 km/h.



Technology explained in detail.
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Steerable draw bar

Pfanzelt forwarding trailers are equipped as standard with a pivoting draw bar with a large steering angle. The maximum excursion from the centre is ± 750 mm. Two powerful hydraulic cylinders ensure safe steering of the laden forwarding trailer, even when it is turned against the slope. The pivoting torque is thus 23.6 kNm (at an oil pressure of 200 bar). The steerable draw bar can be mechanically locked when driving on roads.

The draw bar is locked by means of a one-man system with two protective flaps.

Hitch

The drawbar is available for both top and bottom hitching. Lubrication and adjustment of the spherical plain bearings used to support the swivel drawbar ensure many years of operational reliability for this highly stressed component. With a hydraulic self-oil supply, the powerful piston pump is, protected from damage, installed either above or below the drawbar in an encapsulated manner.

Transport systems

The high-side pan (on the left in the picture) is suitable for transporting light shrub and tree top material, while the bottom pan (on the right in the picture) is ideal for combined transport of branch and trunk material. If this is permanently mounted on the vehicle, this protects the tyres from damage by the gripper.





Tool box and holder

The chainsaw and fuel canister are stored neatly and tidily on the forwarding trailer. An additional storage bin is ideally suited for lashing belts, tools and other small items.



LED lighting with indicator monitoring

The lighting system using LED lights is integrated in the frame. To protect the lights when working in the forest, these can be folded in.



Crane

Pfanzelt forestry cranes are designed for professional service. The Pfanzelt crane range offers loading cranes in different lifting classes. All Pfanzelt cranes have an impressive lifting force and a high pivoting torque to enable powerful pivoting of the crane – even uphill.

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Drive systems on Profi forwarding trailers

uniDRIVE (P11, P13, and P15)

Pfanzelt's hydraulic wheel drive uniDRIVE sets new standards in the price-performance ratio and is available for Pfanzelt Profi forwarding trailers.

- Maximum thrust per wheel up to 2 t
- Hydraulic supply by own oil supply or tractor hydraulics
- No wear during road travel by disconnecting the drive

(Illustration without protective covers)



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powerDRIVE

The hydraulic wheel drive powerDRIVE made by Pfanzelt offers a new dimension in wheel drive. It is convincing in the forest and on the road.

- Maximum thrust 6.1 t
- Proportional drive for forward and reverse travel
- All brake systems available in combination with the wheel hub drive
- Automatic drive switch-off when braking
- Freewheel for wear-free road travel

The wheel hub drive is equipped with an electric control unit by which the driver can control the drive from the tractor's cab. This allows the operator to switch between simple drive for forward drive and reverse, and hill start assist.

Type	Thrust	Speed
2WD-I	2.4 t	max. 8.8 km/h
2WD-II	3.1 t	max. 8.2 km/h
4WD-I	4.8 t	max. 4.4 km/h
4WD-II	6.1 t	max. 4.1 km/h

Data dependent on hydraulic oil quantity and pressure.



Technology explained in detail.
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System supplier

In addition to the development and production of agricultural, forestry, municipal and special machinery, Pfanzelt Maschinenbau has also established a name for itself over the years as a supplier of system components in mechanical engineering. This means that the powerDRIVE drive can also be supplied as a unit other vehicles.