

# Profi geared cable winches – technical specs

## Stacking shield

Pfanzelt geared cable winches are equipped with an especially robust shield made of high strength fine grained steel to create a torsion-resistant box. The resulting wedge form is able to absorb even lateral pulling powers safely, giving many years of robust service. Laterally actuated parking supports ensure that the cable winch can be conveniently attached or removed the tractor and help prevent accidents.



In addition to 3-point attachment, the cable winch can also be mounted via a **4-point attachment**. This guarantees the highest degree of stability. The Pfanzelt attachment system facilitates rapid and simple attachment.

The stacking shield is also available as a **hydraulic folding shield**. This provides greater ground clearance and space to carry trunks.



## Drive

The cable winch is driven via the tractor PTO shaft at speeds of 540, 750 or 1000 rpm. From the Cardan shaft, the drive is transmitted via a bevel gear to the precision worm gear immersed in an oil bath. This ensures very quiet running and permanent operating safety.

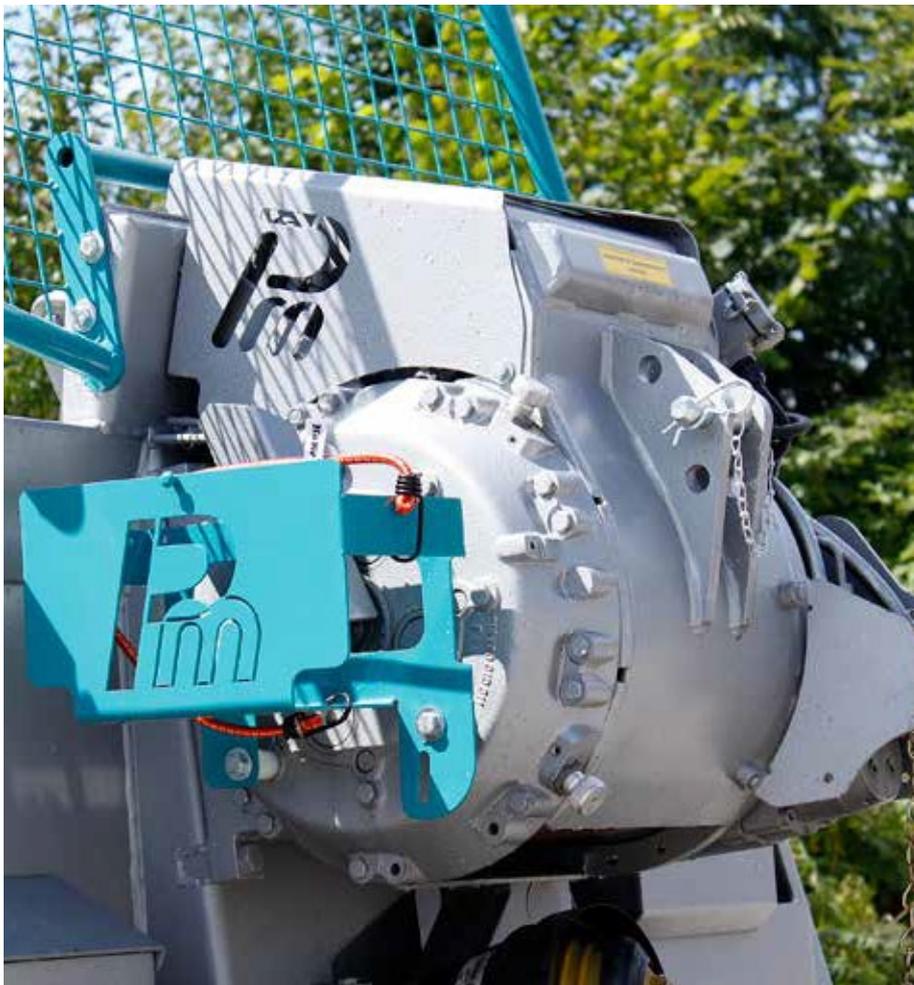
Multi-disc sintered plate sets are used for exact control of the braking and clutch operations and secure crossover. The complete system is protected by internal mounting.



## Wireless control

In addition to the standard functions (pulling, short braking, permanent release, immediate permanent release, infinitely adjustable engine gas adjustment) the modern wireless control system that comes as standard can also be required support engine start/stop and an emergency call circuit.



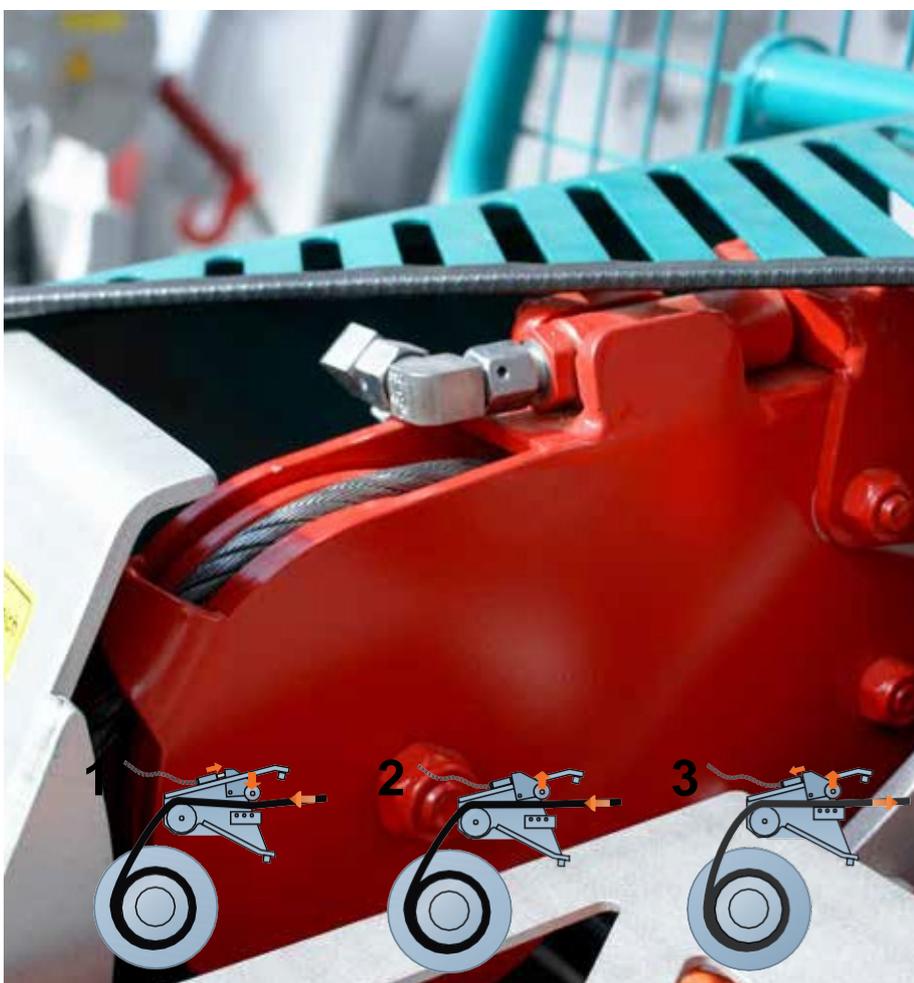


### Winch unit

If the cable drum is aligned with the pulling direction, this enables easy cable payout and ensures low cable wear, as the cable is not fed out or wound in via several rollers in different directions. According to KWF tests, Pfanzelt cable winches have the lowest power requirement for paying out the cable. Moreover, the cable winch is mounted in an especially favourable position on the tractor in relation to centre of gravity.

The use of a cable drum with a large core diameter ensures very low tractive force loss from the top to bottom cable layer. According to independent tests by the KWF, the Pfanzelt cable winch has a maximum tractive force loss of 28% with a standard cable length.

The very low cable infeed height enables simple and comfortable operation without deflection roller.



### cable distribution with cable infeed brake

The cable is always kept taut when drawn in, even if the trunk starts to slip or the cable is loose. All made possible by the Pfanzelt cable infeed brake. A cylinder presses the cable when it is drawn in with a brake roller against the brake block. The cylinder force is selected so that the cable can only be pressed against the brake block when it is in an unloaded state. When the cable is paid out, the brake opens completely.

#### Position 1

The cable infeed brake is actuated by activating the *Pull* function.

#### Position 2

As soon as the cable is drawn in under load, the cable infeed brake opens.

#### Position 3

During cable payout, the cable infeed brake opens completely and thus does not obstruct cable payout.

### Cable payout

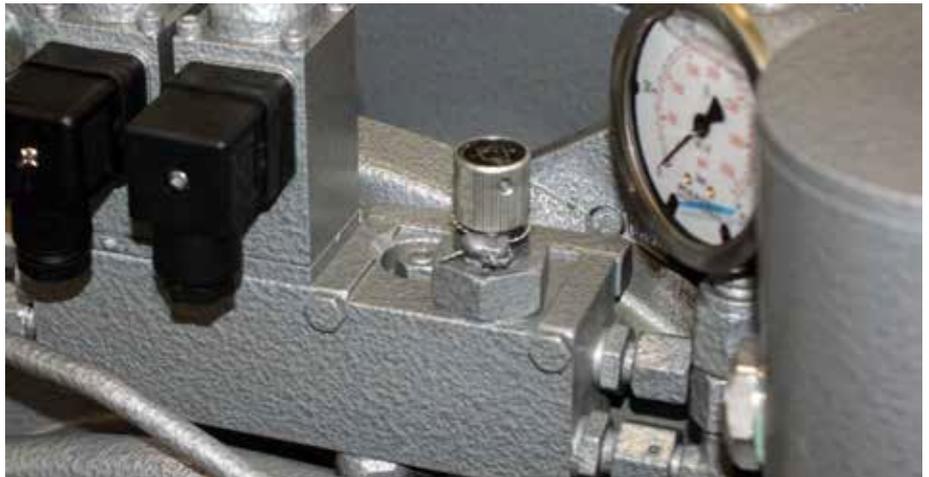
The Pfanzelt cable payout has been developed to increase operating comfort and to improve the cable winding quality on the cable drum. The cable payout device built into the pivoting arm of the cable distributor has a mechanical drive and is hydraulically actuated. As soon as the cable payout is activated, the cable is pressed firmly against the cable roll via several flexibly mounted pressure rollers over a large radius.

Due to the special structure the operability of the device is not impaired by soiling or cable damage.



### Load lowering valve

Pfanzelt geared cable winches are equipped with a load lowering valve. This means that a cable under strain can be gradually released and lowered. This feature is essential for safety felling work and guarantees the highest degree of safety.



### Offset gearbox

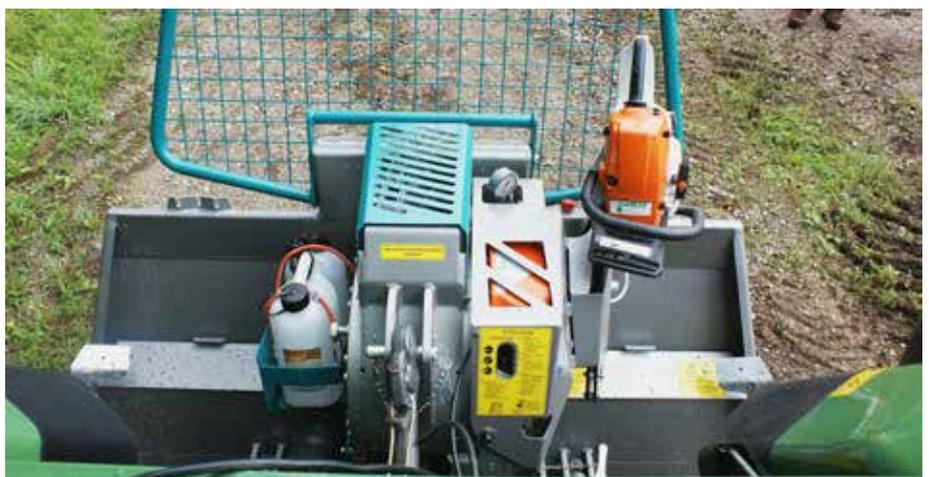
Pfanzelt cable winches with a wide cable drum can be equipped with an offset gearbox to provide a centered drive (standard equipment in some models). This is also recommended for use with tractors with an non-centered PTO stub.

An offset gearbox with direction of rotation reversal can also be provided for front-and rear-mounting.



### Stowage space

Specially designed holders for chain-saws and fuel canisters as well as two additional storage bins equipped with lids provide lots of storage capacity for forestry equipment.





### **Pfanzelt TUTUM**

The Pfanzelt Pro crush protection is an ergonomically designed grip and is fixed to the winch cable yet free to slide. It prevents the hand being crushed when the cable is drawn in or being injured by damaged cable.

