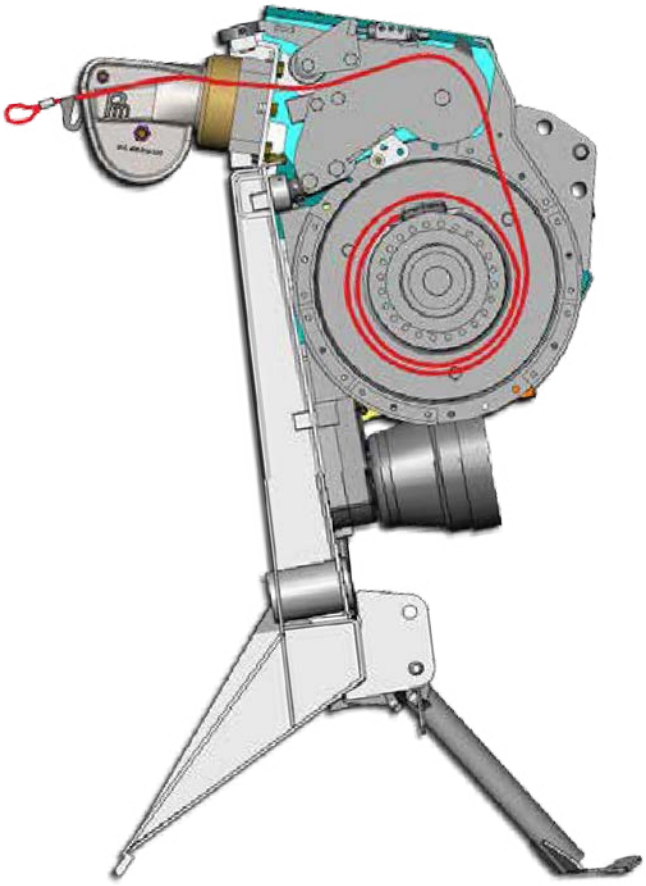
S-line geared cable winches – technical specs

Stacking shield

Pfanzelt S-line geared cable winch- es are equipped with an especially robust stacking 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, pre-venting accidents.



Cable drums

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 S-line cable winch has a maximum tractive force loss of 21% with a standard cable length.

The very low cable infeed height ena-bles simple and comfortable operation without deflection roller.

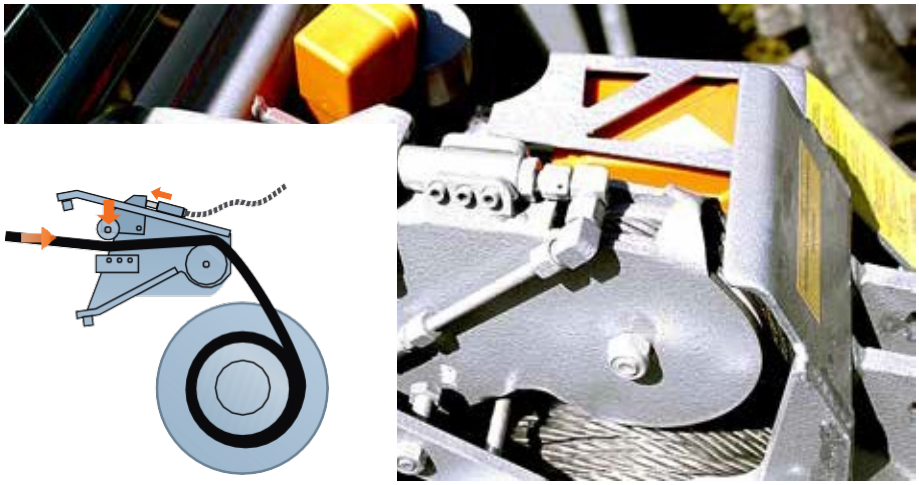
Winch unit

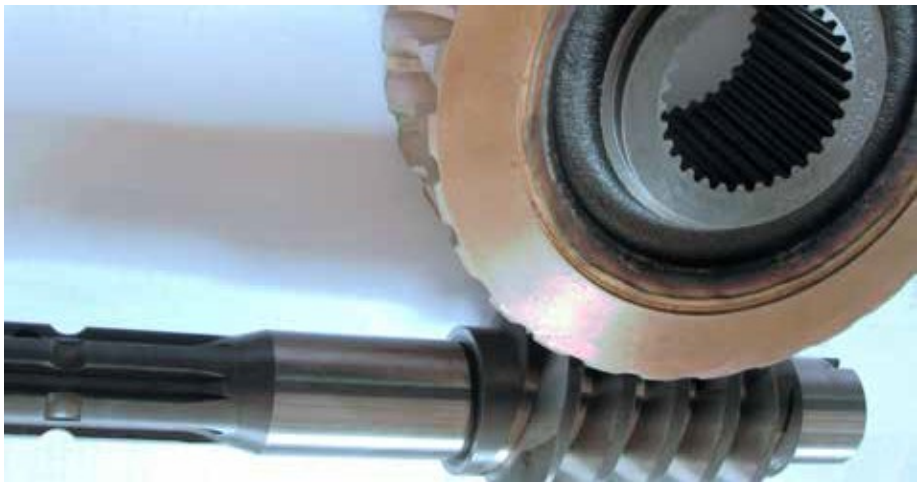
The alignment of the cable drum in the pulling direction enables easy cable payout and ensures low cable wear, as the cable is not fed out and wound in via several rollers in different direc-tions. According to KWF tests, Pfanzelt geared cable winches have the lowest power requirement for paying out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

Cable infeed brake & distributor

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 unload-ed state. When the cable is paid out, the brake opens completely.





Drive system

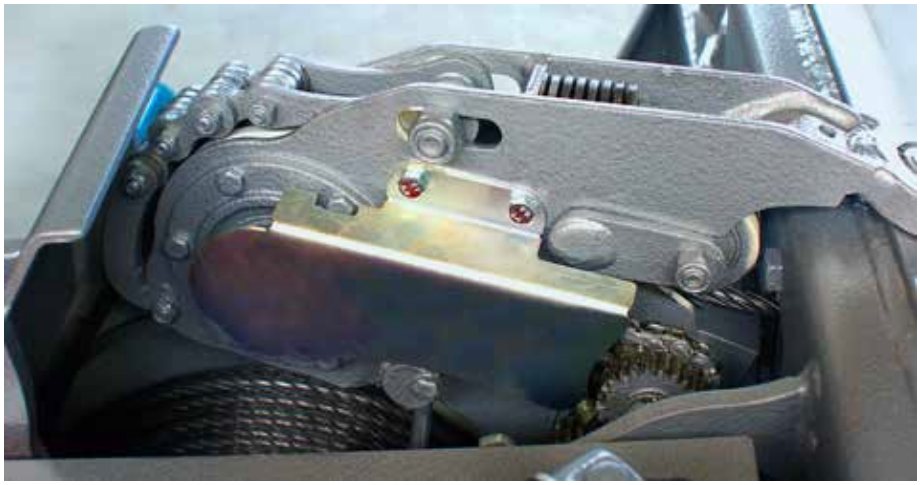
The cable winch is driven via the tractor PTO shaft at speeds of 540, 750 or 1000 rpm. From the Cardan shaft, the drive is transmitted via a bevel gear to the precision worm gear immersed in an oil bath. This ensures very quiet running and permanent operating safety.

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 mount.

Cable payout (optional)

The Pfanzelt cable payout has been developed to increase operating comfort and to improve the cable winding quality on the cable drum and is designed for long-term durability.

The cable payout device built into the pivoting arm of the cable distributor has a mechanical drive and is hydraulically actuated. It is mounted behind the stacking shield as a protection against damage. The cable payout facilitates working on slopes, especially at great cable lengths. The cable is pressed against the cable roll via several flexibly mounted pressure rollers over a large radius.



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.

Load lowering valve

Pfanzelt S-line 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. In order to prevent disruptions, the cable winch operates with a separate oil circuit with filter unit that is fed via a radial piston pump and operates all hydraulic functions.

PPS controller

With the Pfanzelt PPS precision controller, which is unique on the market, the cable winch can be adapted to the respective forwarding situation. The operator can rapidly and easily adjust the crossover of the clutch and brake by preselection. This offers maximum operating comfort and the highest degree of safety.

The wireless remote control with engine speed adjustment also comes as standard.

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.