

Alpine geared cable winches

Profitable technology for the private forestry industry



The series of three-point alpine winches has been designed for semi-professional and forestry workers. The demand for the technology is the same. The differences can only be found in the limited range of accessories, which are perfectly adapted to the private forestry application area. Optimised for the re-use of wood under simple and medium-weight terrain conditions in semi-professional and forestry farms, the three-point forestry winches are also designed for small and medium-sized tractors in terms of dimensions and weight. The cable winch continues to be used in municipal and private forestry enterprises with a high demand for stability and safety (safety deposits).



Alpine XL.

The XL model also comes with a wide cable drum with a higher cable capacity.





Alpine geared cable winches

Technical details



Stacking shield

The backplate of the Schlang & Reichart geared cable winches is made of high-strength fine-grained steel and is therefore particularly stable. The resulting wedge form is able to absorb even lateral pulling powers safely, giving many years of robust service. The unit can be installed in three positions on the rear shield, making it adaptable to tractors of different sizes.

Winch unit

The alignment of the cable drum in the pulling direction enables an easy cable payout and ensures low cable wear, as the cable is not fed out and wound in via several rollers in different directions. Moreover, the cable winch is mounted in an optimum position on the tractor in relation to centre of gravity.

Transmission

The cable winch is driven via the tractor PTO shaft at speeds of 540, 750 or 1000 rpm. The driving force is transmitted from the articulated shaft to the precision worm gear in the oil bath by way of a spur gear, which ensures a very smooth operation and long-term operational 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.



Alpine geared cable winches

Technical details



Cable distribution and cable infeed brake

The mechanical cable distribution ensures clean winding processes, protects the rope and allows for a long cable extraction. The cable distribution is suitable for both steel and plastic ropes.

Cable infeed brake

The issues related to of slack rope and the consequences, e.g. high rope wear or even rope tear through a crimped rope are well known. Schlang & Reichart has solved this problem. The patented rope is braked automatically and without wear during the patented rope entry brake. The braking force can be adjusted individually up to 750 n-1. Slack formation is thus reliably prevented. The cable and the entire cable winch are thereby spared.

TUTUM - Pro crush protection

The Pro Crush Protection is an ergonomically designed grip that slides along the cable. It prevents the hand being crushed when the cable is drawn in or being injured by damaged cable.





Cable payout

In order to increase the operating comfort and to improve the rope winding quality, the rope output for the alpine three-point forestry winches has been developed. The cable payout device built into the pivoting arm of the cable distributor has a mechanical drive and is hydraulically actuated. The cable is thereby pressed against the cable roll via several flexibly mounted pressure rollers over a large radius. The large support surface ensures safe operability even if the cable is soiled or damaged.



Storage space for tools

There are practical holders for chainsaw and canisters on the sides of the winch unit. There are also two stowage compartments on the rear shield.



Alpine geared cable winches

Technical details

Forestry wireless remote control

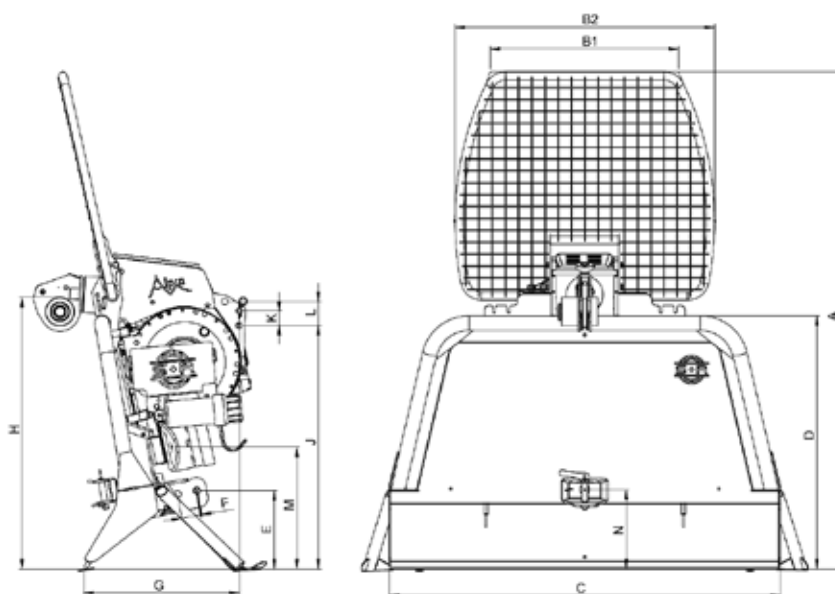
The three-point winches are equipped with a wireless remote control as standard.

Functions: Pulling, loosening, short-circuit, infinitely variable motor speed adjustment, emergency stop



Dimensions

	51 Alpine	61 Alpine/ 61 XL/ 71 XL	
A	2035	2040	2366
B1	820	771	811
B2	1065	1063	1267
C	1500	1400, 1600	1900, 2100
D	992	1039	1195
E	280	321	376
F	60	80	80
G	636	637	684
H	1119	1115	1274
J	968	1000	1155
K	-	60	60
L	-	97	97
M	493	500	656
N	374	325	430



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Technical specs



	51 Alpine	61 Alpine	61 XL Alpine	71 XL Alpine
Traction in lower cable layer	51 kN	61 kN	61 kN	71 kN
Traction in upper cable layer ¹	41 kN	48 kN	54 kN	61 kN
Serial cable length (Highly compressed forestry rope with sliding hook)	Ø 10 mm x 70 m	Ø 11 mm x 70 m	Ø 11 mm x 70 m	Ø 12 mm x 60 m
Maximum recommended cable length	Ø 10 mm x 110 m	Ø 11 mm x 100 m	Ø 11 mm x 150 m	Ø 12 mm x 120 m
Worm and helical gear in oil bath	●	●	●	●
Multi-plate clutch	Sintered metal			
Multi-plate brake	Sintered metal			
Average cable speed at 540 ⁻¹	0,57 m/s	0,57 m/s	0,57 m/s	0,57 m/s
Independent hydraulic circuit	With integrated piston pump			
Load lowering valve	○	○	○	○
Swivel arm for cable distribution	○	○	●	●
Forestry wireless remote control	Transmitter with toggle switches (with emergency control) Incl. stepless speed adjustment			
Width of stacking shield	1,500 mm	1,600 mm	1,600 mm	1,900 mm
Stowage space	2 toolboxes, holder for chain saw and fuel canister			
Protective grille as per accident prevention regulations	●	●	●	●
Towing coupling, articulated shaft	●	●	●	●
Safety test	According to KWF and CE directives			
Weight with cable	approx. 510 kg	approx. 520 kg	approx. 530 kg	approx. 590 kg

Optional cable winch:

Cable guide

Schlang & Reichart swivel pulley with cable entry brake	-	○	○	○
Swivel arm for cable distribution	○ (with cable entry brake)	○	●	●
Cable payout (only in combination with cable distribution)	○ (with cable entry brake)	○	○	○

Stacking shield

Stacking shield 1,900 mm	-	○	○	●
Stacking shield 2,100 mm	-	○	○	○
Saddle holder with handle and Cable clamps	○	○	○	○
Headlights Gr. 395-565 (category 2)	○	○	○	○
Duo transmission with central drive and Stub for two directions of rotation	○	○	○	○
Helical gearboxes for central drive	-	○	○	○

¹ Serial cable length

● Standard ○ Option - not deliverable