

Geared cable winches

Unbeatable quality and resilience

Highest precision.

Our motto for the precision of the Schlang & Reichart winches: unmatched in overlapping, pulling and braking



At Interforst 2014 in Munich, a new winch generation was presented to forestry professionals and contractors. These were re-compiled in the configuration and adapted to current requirements in terms of performance, weight optimisation and security aspects. In contrast to the proven technology and robustness, only minor developments have been made in order to remain loyal to the motto “unmatched in overlapping, pulling and braking” in the future. A novelty in this series is the possibility of a constant pulling force from the lower to the upper cable layer.





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

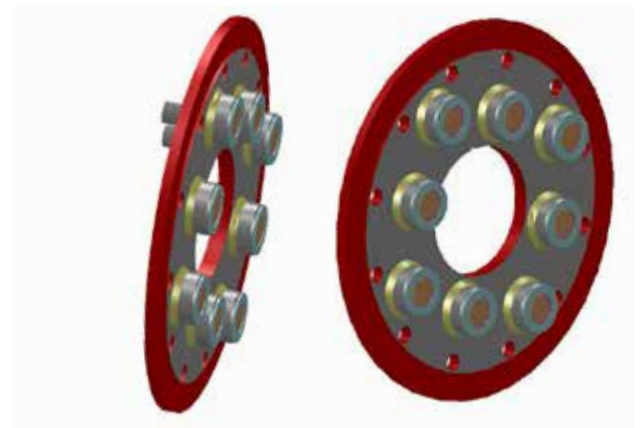
The alignment of the cable drum in the pulling direction enables an easy cable payout and ensures low cable wear, as the cable is not fed out and wound in via several rollers in different directions. The cable winch is mounted in an optimum position on the tractor in relation to centre of gravity.

Exact control

No other winch is so perfectly designed that it is possible to tighten and loosen the load from a precision worm gear set, a sintered metal lamella clutch and brake. The control is effected by the cylinder disc unique on the market. The mechanical, maintenance-free overlap between the clutch and the brake ensures precise and safe reworking. This always switches accurately regardless of oil viscosity and temperature. The complete system is protected by internal mounting. The drive is controlled by a precision worm gear immersed in an oil bath.

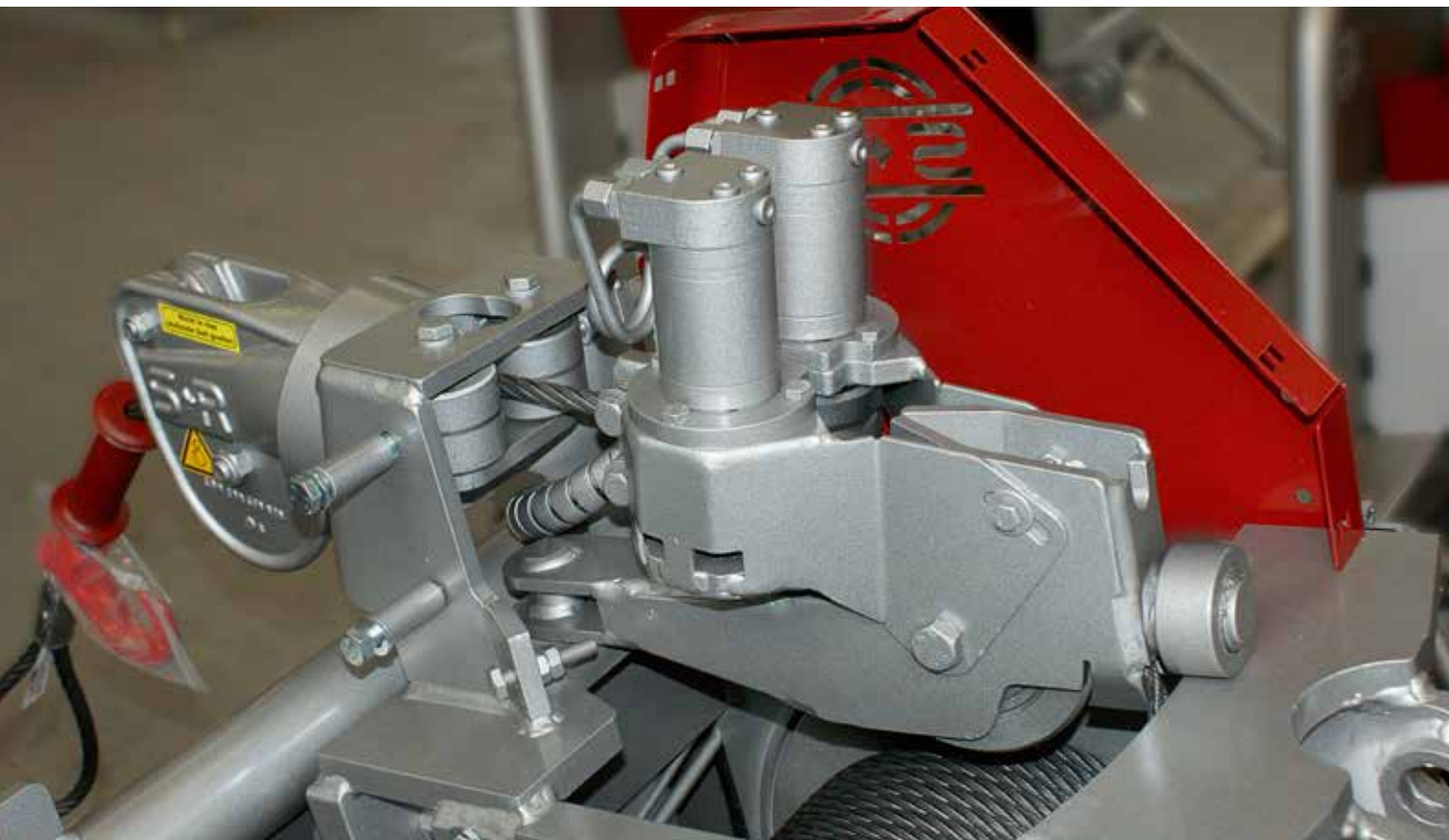
Constant traction

Optionally Schlang & Reichart three-point cable winches can be designed in such a way that they have a constant pulling force. As a result, the cable winch always has the same pulling force. The usual pulling force loss is excluded. This provides greater safety and greater ease of operation, e.g. thinner forestry ropes can be used. The operator can thus always work with the maximum pulling force.



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Technical details

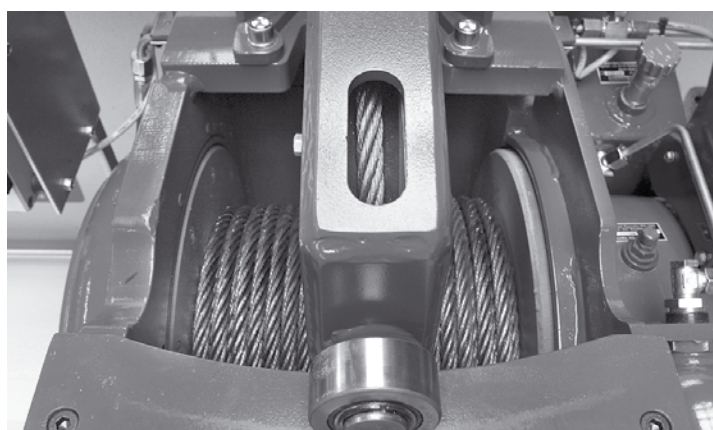


Twin cable ejection

The cable ejection, which is fed by the hydraulic supply of the cable winch, increases the ease of operation and improves the rope winding quality on the rope drum. After activation, the rope is ejected by two high-torque hydraulic motors. These ensure an optimal cable output, even in the case of rope contamination or damage.

Cable distribution

The mechanical cable distribution, which is part of the standard equipment, ensures clean winding processes, protects the rope and enables permanent easy cable extraction.



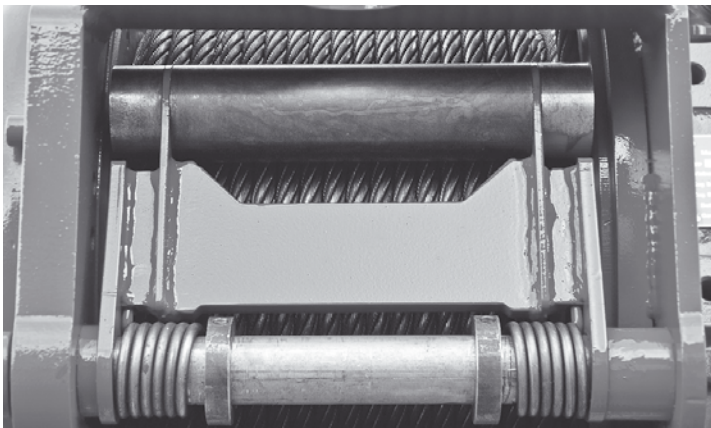


Cable infeed brake

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 rope patented by Schlang & Reichart 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 standard-built 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.



Pressure roller

For additional optimisation of the rope winding, a pressure roller is part of the standard equipment for all Schlang & Reichart geared forestry winches. The rope is spared by the clean winding.



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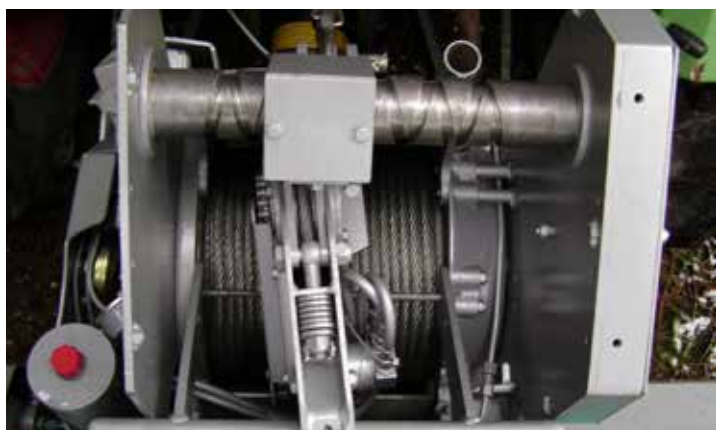


Load valve via handwheel

Schlang & Reichart 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.

Proportional solvling

Optionally, the load control valve can also be operated by radio. As a result, the brake can be dosed off by radio.



Exact spindle

The exact winding for Schlang & Reichart three-point forestry winches is the most precise form of rope winding. The cable distribution arm is forcibly moved horizontally over the drum and guarantees an optimal cable winding in conjunction with the integrated cable inlet brake. This ensures low cable wear and maximum safety.

The exact winding is only available for the three-speed winch models DW861, DW 1011 and DW1211.



Cross spindle

Schlang & Reichart Double-drum winches as well as fixed and plug-in attachment winches can be equipped with a cross spindle for highest precision in the winding of the cable. The cable distribution over a cross spindle is a hallmark of Schlang & Reichart - old tried and tested and nevertheless still the best. To distribute the rope evenly over the rope drum, the roller window is moved horizontally. The result is a precise rope winding and therefore more safety in the rope work.



Wireless control system

The Schlang & Reichart transmission winches are equipped with a radio control system to ensure a high degree of operational safety and to ensure outstanding work. The F10 radio transmission from Telenot and the Forstfunk Patrol from HBC is used in the series.

Functions: Pulling, short brakes, release, permanent release, permanent release immediately, stepless motor gas adjustment. On request equipped with engine start/stop and emergency call.



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 back shield, which can be covered with a cover.



Geared cable winches

Technical specs. - single drum geared cable winches



	DW711	DW861	DW1011	DW1211
Traction in lower cable layer	71 kN	86 kN	105 kN	121 kN
Traction in upper cable layer	52 kN	52 kN	73 kN	85 kN
Maximum recommended cable length	Ø 12 mm x 120 m	Ø 13 mm x 150 m	Ø 14 mm x 120 m	Ø 15 mm x 100 m
Worm and helical gear in oil bath	•	•	•	•
Multi-plate clutch	Sintered metal			
Multi-plate brake	Sintered metal			
Average cable speed at 540 ⁻¹	0,6 m/s	0,4 m/s	0,4 m/s	0,4 m/s
Cable distribution	•	•	•	•
Pressure roller	•	•	•	•
Forestry wireless remote control	Forestry wireless control F10 B & B or HBC 508 Patrol S			
Width of stacking shield	1,900 mm	1,900 mm	2,100 mm	2,400 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 without cable	approx. 640 kg	approx. 740 kg	approx. 790 kg	approx. 840 kg

Optional cable winch

Cable guide

Cable infeed brake	○	○	○	○
Exact spindle	-	○	○	○
TWIN rope emissions	○	○	○	○
Load valve via handwheel	○	○	○	○
Prop. brake valve by radio control	○	○	○	○
Constant traction	○	○	-	-

Stacking shield

Stacking shield 2,100 mm	○	○	•	-
Stacking shield 2,400 mm	○	○	○	•
Folding shield (Hydraulically foldable with 2 DW cylinders)	○	○	○	○
Duo transmission with central drive and Stub for two directions of rotation	○	○	○	○

Please note:

To determine the optimal cable length, 10% must be deducted from the maximum cable capacity.

Important

Please note the statutorily prescribed breaking load when selecting the cable for the cable winch

Geared cable winches

Technical specs. - double drum geared cable winches



	DW612	DW712	DW862	DW1012
Traction in lower cable layer	2x 61 kN	2x 71 kN	2x 86 kN	2x 105 kN
Traction in upper cable layer	2x 45 kN	2x 52 kN	2x 52 kN	2x 73 kN
Maximum recommended cable length (per drum)	Ø 11 mm x 140 m	Ø 12 mm x 120 m	Ø 13 mm x 100 m	Ø 14 mm x 85 m
Worm and helical gear in oil bath	•	•	•	•
Multi-plate clutch			Sintered metal	
Multi-plate brake			Sintered metal	
Average cable speed at 540 ⁻¹	0,6 m/s	0,6 m/s	0,4 m/s	0,4 m/s
Cable distribution	•	•	•	•
Pressure roller	•	•	•	•
Forestry wireless remote control		Forestry wireless control F10 B & B or HBC 511 Patrol D		
Width of stacking shield	2,100 mm	2,100 mm	2,100 mm	2,400 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 without cable	approx. 860 kg	approx. 905 kg	approx. 985 kg	approx. 1,040 kg

Optional cable winch

Cable guide

Cable infeed brake	○	○	○	○
TWIN rope emissions	○	○	○	○
Cross spindle	○	○	○	○
Load valve via handwheel	○	○	○	○
Prop. brake valve by radio control	○	○	○	○

Stacking shield

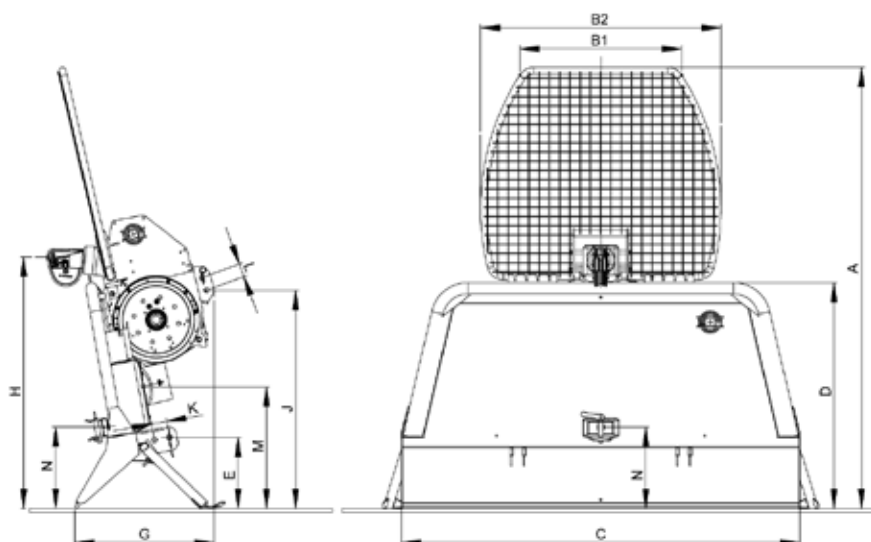
Stacking shield 2,400 mm	○	○	○	•
Folding shield (Hydraulically foldable with 2 DW cylinders)	○	○	○	○
Duo transmission with central drive and Stub for two directions of rotation	○	○	○	○

Geared cable winches

Dimensions

Single drum geared cable winches

	DW711	DW861 DW1011 DW1211
A	2330	2380
B1	860	860
B2	1270	1270
C	1900, 2100	2100, 2400
D	1190	1220
E	380	380
G	730	850
H	1330	1330
J	1150	1140
K	80	80
L	70	89 / 152
M	640	580
N	430	450



Double drum geared cable winches

	DW612 DW712	DW862 DW1012
A	2360	2310
B1	920	920
B2	1270	1270
C	2100, 2400	2100, 2400
D	1220	1220
E	380	380
G	770	770
H	1320	1330
J	1180	1190
K	80	80
L	87	-
M	640	610
N	450	450
O	395	405

