Schlang & Reichart

# Forestry product catalogue

Schlang & Reichart

# Your contact person - always there when you need them


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## Good decisions are based on good advice.

In order to find the right product for you,
professional advice comes first.


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# Schlang & Reichart

Schlang & Reichart can look back on more than 70 years of company history as a traditional company for the construction of geared forestry winches and other forestry products. This means that the company is likely to be the oldest German producer of forestry technology.

# Over 70 years.

Schlang & Reichart has been serving the forestry industry for more than 70 years.


*The first product: The one-handed wagon from the 1940s.*

# History of Schlang & Reichart

**1945**
The company Schlang & Reichart Apparatebau was founded in 1945 by Franz Schlang and Anton Reichart in Marktoberdorf in the Allgäu region. Mr Schlang was concerned with construction management, whereas Mr Reichart focussed on production. The cornerstone of the product range, which was to be expanded quickly in the coming years, was the one-handed wagon. The demand for the simple one-handed wagon was significant due to the end of the Second World War and the associated reconstruction.

**1946**
This was the beginning of the development of the first winch for the forestry industry in 1946. The winch was of type designation W1 and had been designed for mounting on a tractor. In contrast to the technology of today, this cable winch was still activated by a wooden clutch. In addition to the production of the first forestry winches, further products were added to the range in the 1950s. In addition to compressed air compressors and PTO injections, the production of electrical elevators for silo press covers also began. After the forestry winches for the forestry industry were introduced, forestry winches were also produced for other application areas. The towing and braking coiler was thus designed, for example, for underground construction and has been used for towing and braking lorries and other transport equipment.

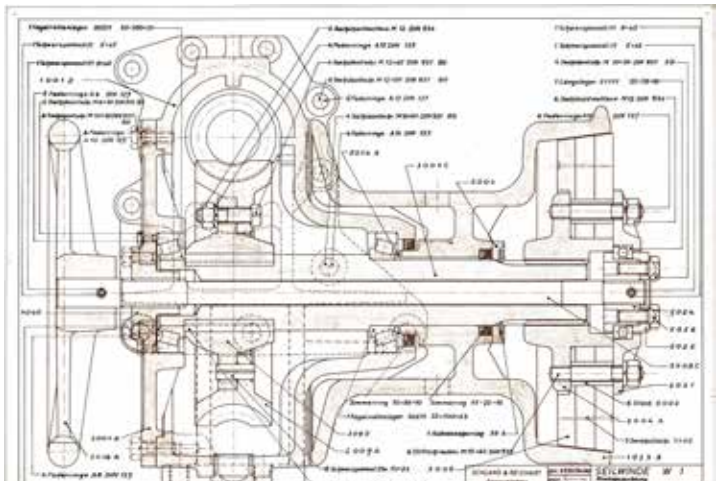
**1958**
The ever-increasing number of employees and production - especially in the area of forestry winches, which had already been built in very large batches - led to the move to a new company building with larger assembly and office space. With more than 60 employees, the business and production rooms on Micheletalweg were officially opened in 1958.

**1968**
The start of production of the telescopic autocranes and the rapidly increasing production numbers required the construction of a further production hall on Micheletalweg in 1968. The inauguration followed in 1970.

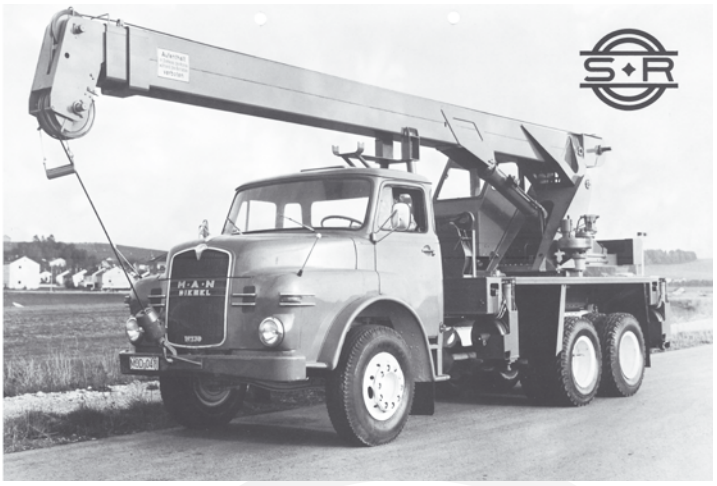
**1970**
With the new winch generation, the *forestry equipment* division was continuously expanded throughout the 1970s. Schlang & Reichart established itself as a brand name for technically high-quality, qualitatively demanding and practice-oriented products for the forestry industry.

By 1970, over 25,000 forestry winches had been produced and sold.

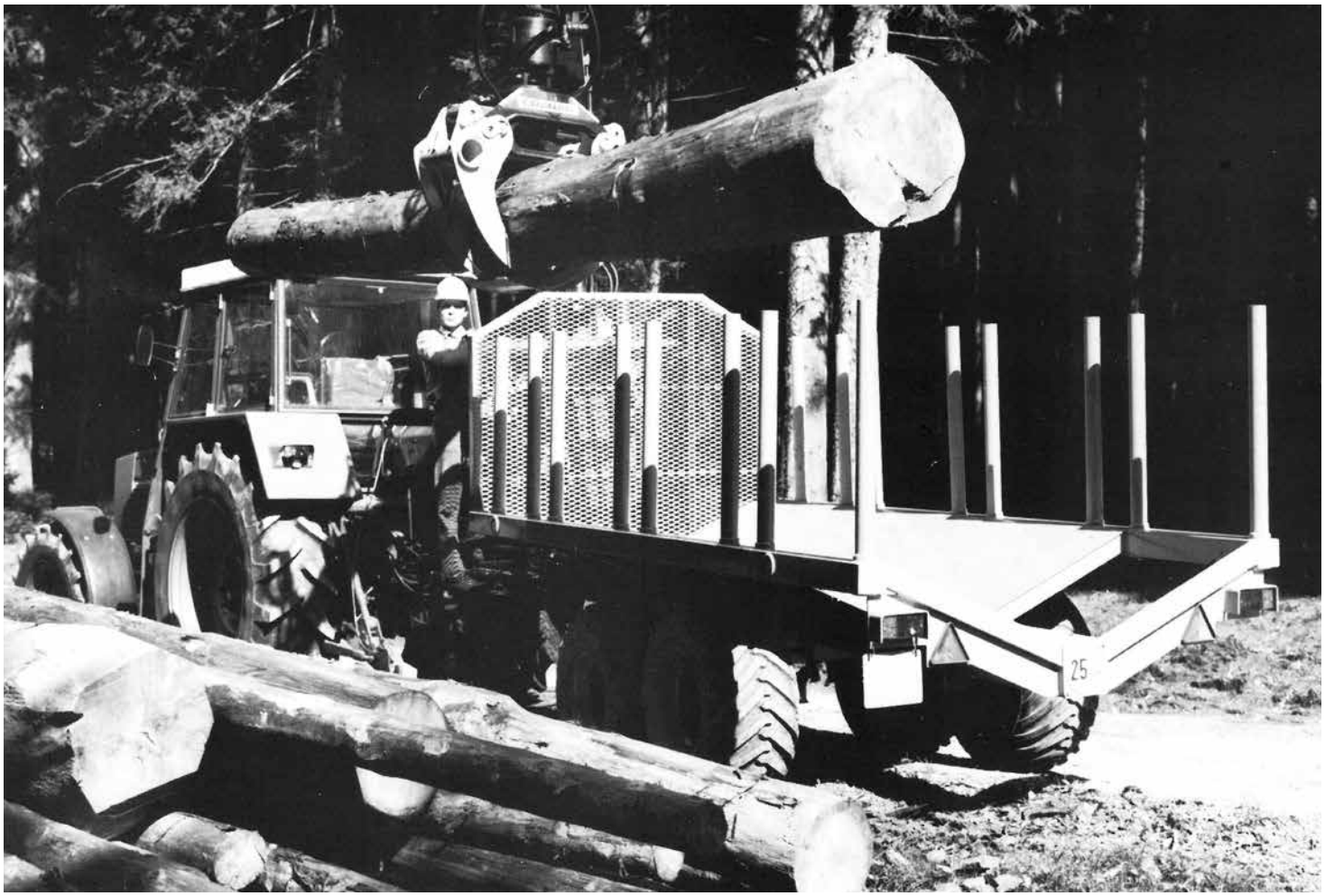
Photo Jan Biernath



*Original construction drawing of the first winch of type W1 from the year 1950.*




*Telescopic autocrane MT 16 with a maximum lifting force of 10 tonnes from the 70's*



*One of the first Schlang & Reichart forwarding trailers with a three-bar frame*

**1970**
The Type 31.2 backhoe, presented in these years - a cable winch with a rear shield and two pendulously suspended wheels, supported the market position as an innovation leader for professional forestry technology. The design of the truck was designed in such a way that the wheels folded away to the side. As a result, the wheels were loaded only during forward-moving travel, thereby preventing an uncontrolled ascent of the front axle by the supporting action of the back-up vehicle. Short-haul transport was also possible with a double rope loop with the back-up wagon.

**1985**
At the end of the 1980s, development and production of forwarding trailers began. The type 4080 forwarding trailer was designed with a torsionally rigid four-cane frame made of fine-grained steel, which is optimally integrated into the long tradition of successful forestry technology that belongs to Schlang & Reichart.

*Forwarding trailer type SR.1400*

**2013**
At the beginning of 2013 the company was sold by the former owner. Mr Hafenmayr determined that this solution was the best way forward for the company and its previous employees. The entire workforce was taken over by the new Managing Director.

Paul Pfanzelt viewed the acquisition as a strategic step towards a further expansion of the activities of both companies at home and abroad. Synergy effects through joint production and development played an important role.

In addition to the entire workforce, the complete product range as well as spare parts supply and customer service were assumed during the takeover.

For strategic and economic reasons, the company's location was relocated to Rettenbach am Auerberg (10 kilometers away), thus laying the foundations for future business development.

**2014**
A new winch generation was already presented at the Interforst 2014 in Munich. The series comprises forestry winches with a pulling force of up to 12.0 tonnes and builds on the proven technology.

**2015**
In addition to a new series of trailers, an attachment and mounting equipment program for Mercedes Benz Unimog was presented during the year.

**2017**
Schlang and Reichart will become an official system partner for Mercedes Benz Unimog.

Schlang & Reichart can look back on more than 70 years of company history as a traditional company for the construction of geared forestry winches and other forestry products. This means that the company is likely to be the oldest German producer of forestry technology.

# Basing tradition in the future.

Today, Schlang & Reichart belongs to the

most experienced manufacturers in the industry.

# Alpine geared cable winches

## Profiable 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.


XL

# 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 cablepayout 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.

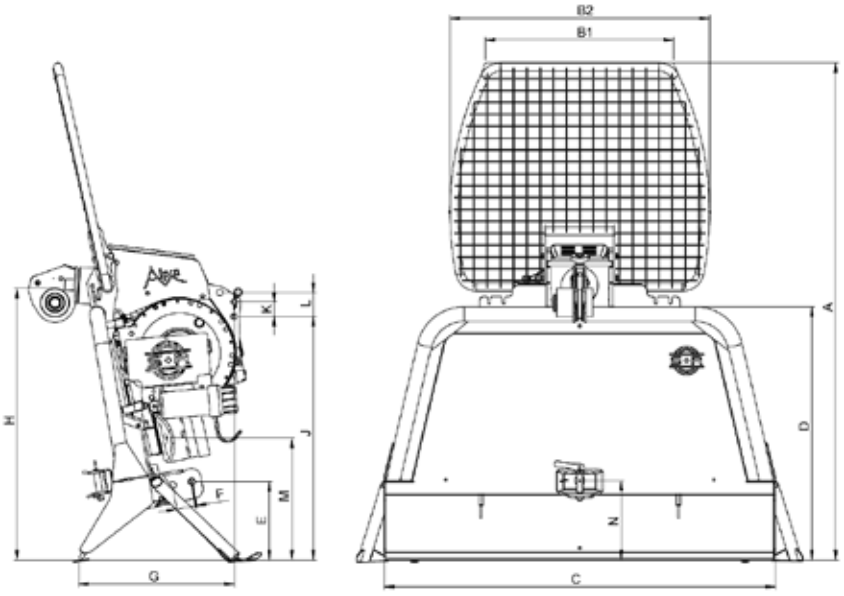
# Alpine geared cable winches

## 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 |



# Alpine geared cable winches

## 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

# Geared cable winches

## Unbeatable quality and resilience

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.

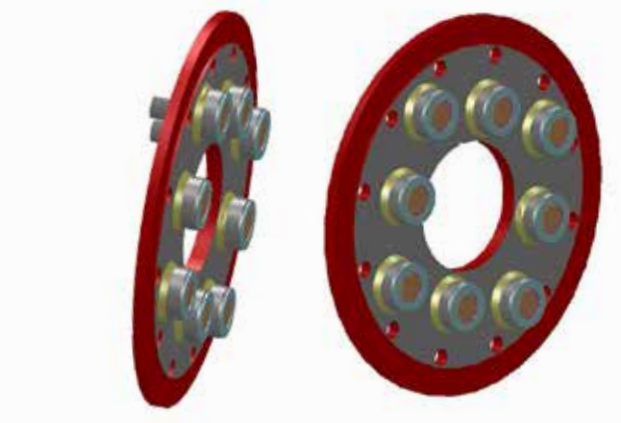
# Geared cable winches

## 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 cablepayout 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.

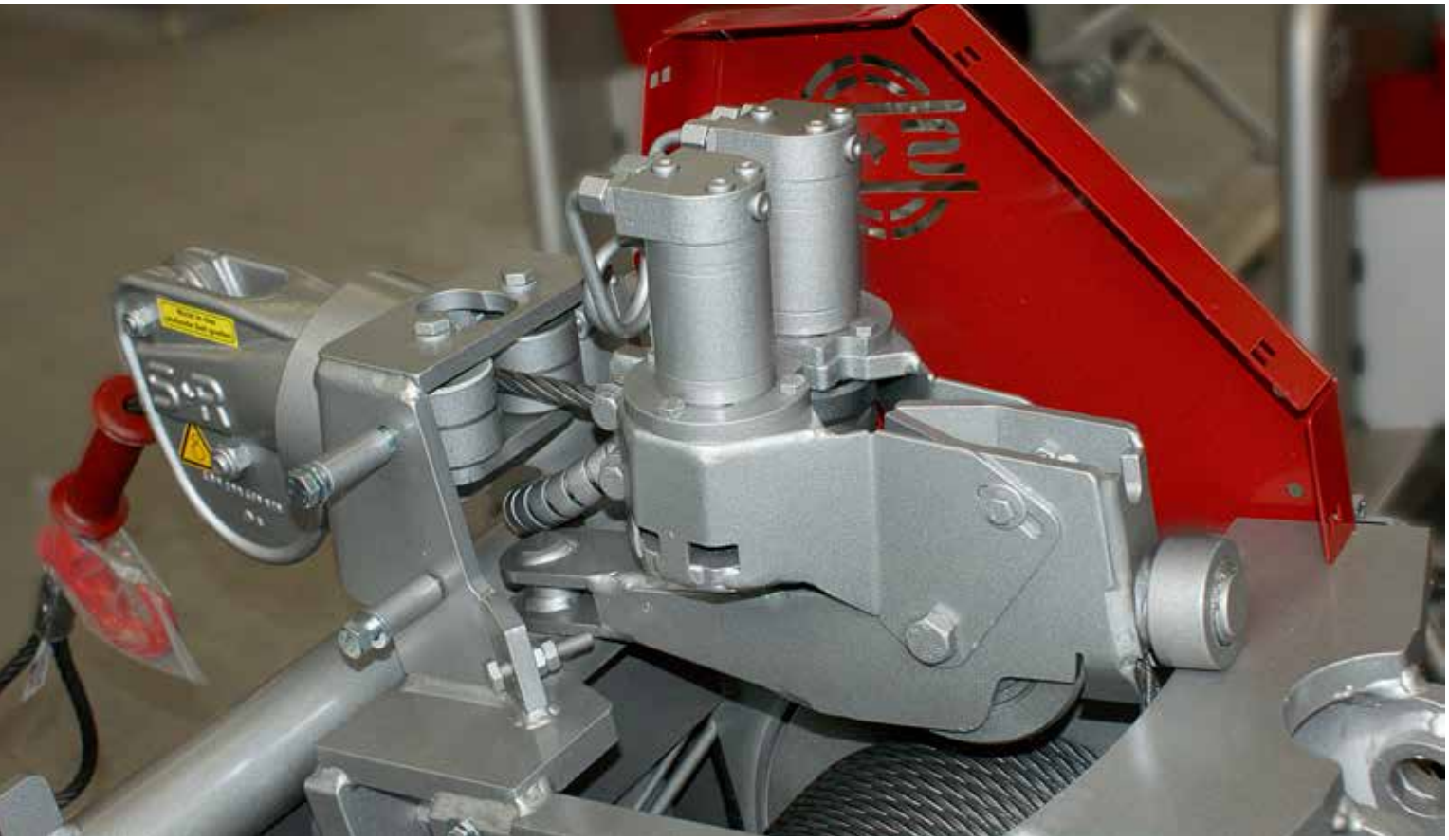
**Exact control**
No other winch is so perfectly designed that it is possible to tighten and loosen the load from a precision worm gear set, a sintered metal lamella clutch and brake. The control is effected by the cylinder disc unique on the market. The mechanical, maintenance-free overlap between the 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.

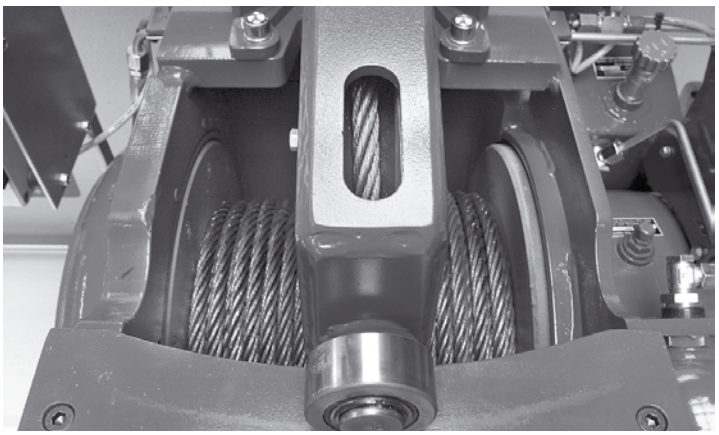
# Geared cable winches

## Technical details



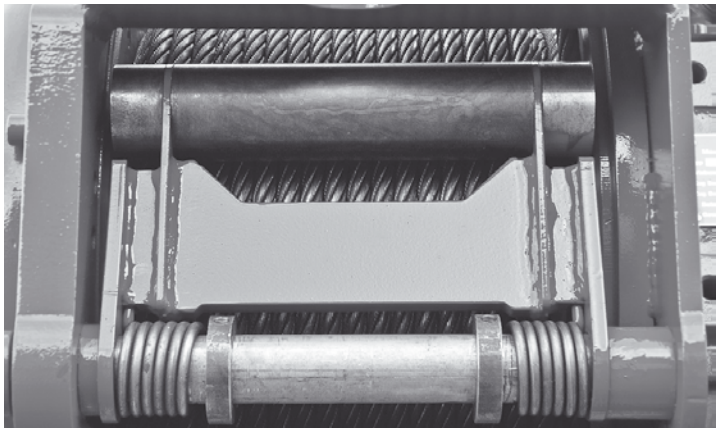
**Twin cable ejection**
The cable ejection, which is fed by the hydraulic supply of the cable winch, increases the ease of operation and improves the rope winding quality on the rope drum. After activation, the rope is ejected by two high-torque hydraulic motors. These ensure an optimal cable output,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

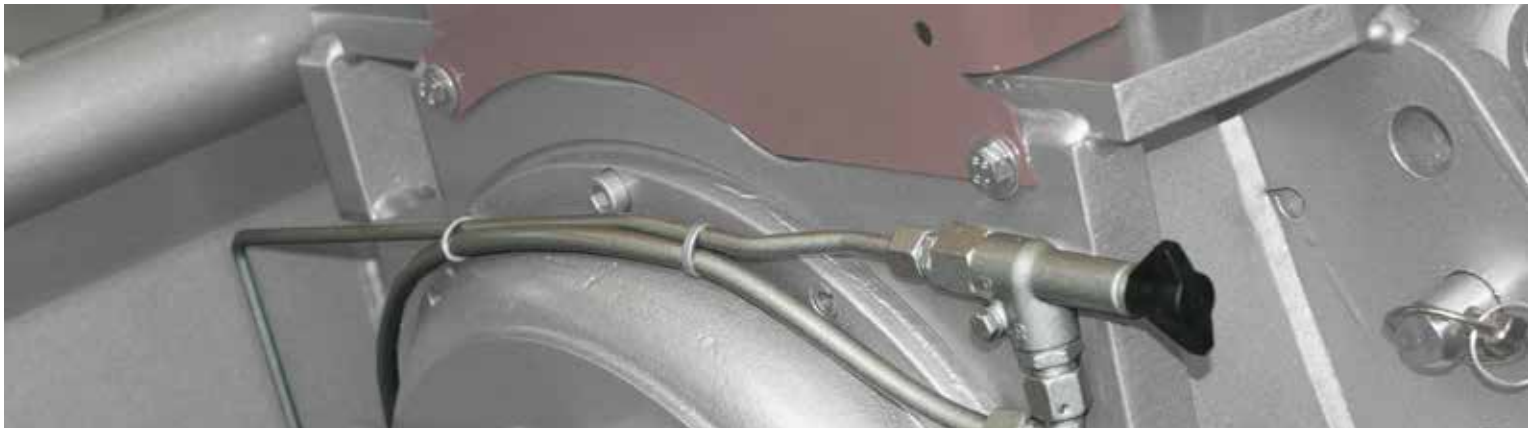
**TUTUM - Pro crush protection**
The standard-built Pro Crush Protection is an ergonomically designed grip that slides along the cable. It prevents the hand being crushed when the cable is drawn in or being injured by damaged cable.



**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.

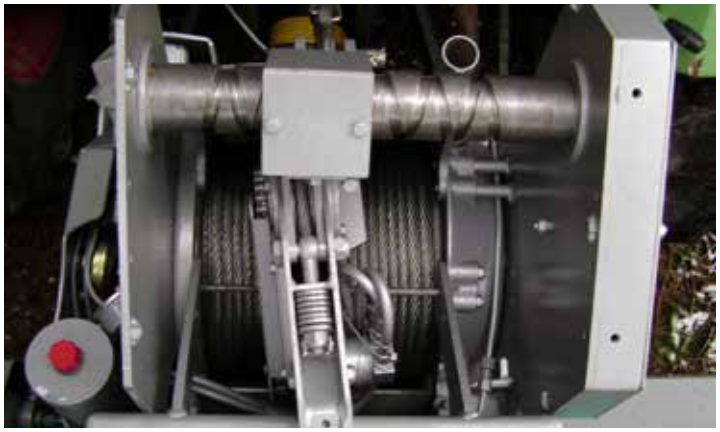
# Geared cable winches

## Technical details



**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 solving**
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.

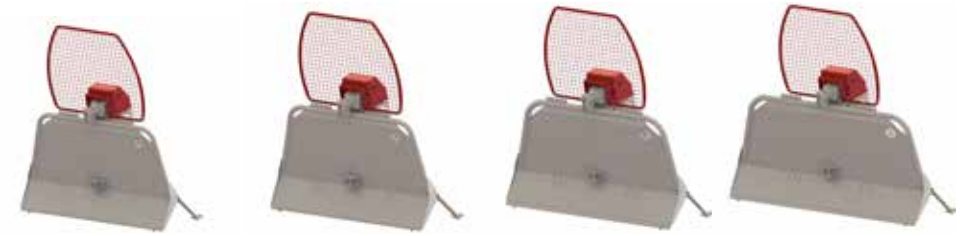
**Wireless control system**
The Schlang & Reichart transmission winches are equipped with a radio control system to ensure a high degree of operational safety and to ensure outstanding work. The F10 radio transmission from Telenot and the Forstfunk Patrol from HBC is used in the series.

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

● Standard ○ Option - not deliverable

# 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**

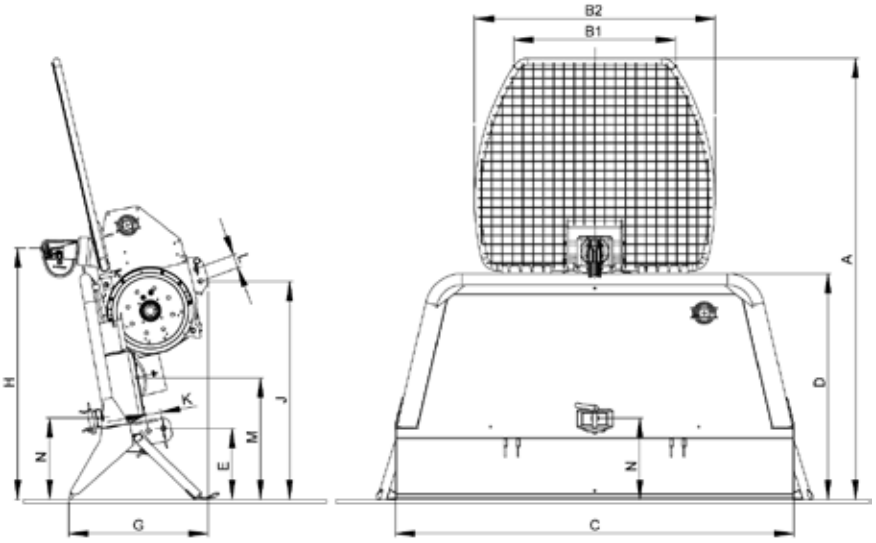
| **Cable guide** | | | | |
|---|---|---|---|---|
| Cable infeed brake | ○ | ○ | ○ | ○ |
| TWIN rope emissions | ○ | ○ | ○ | ○ |
| Cross spindle | ○ | ○ | ○ | ○ |
| Load valve via handwheel | ○ | ○ | ○ | ○ |
| Prop. brake valve by radio control | ○ | ○ | ○ | ○ |
| **Stacking shield** | | | | |
| Stacking 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

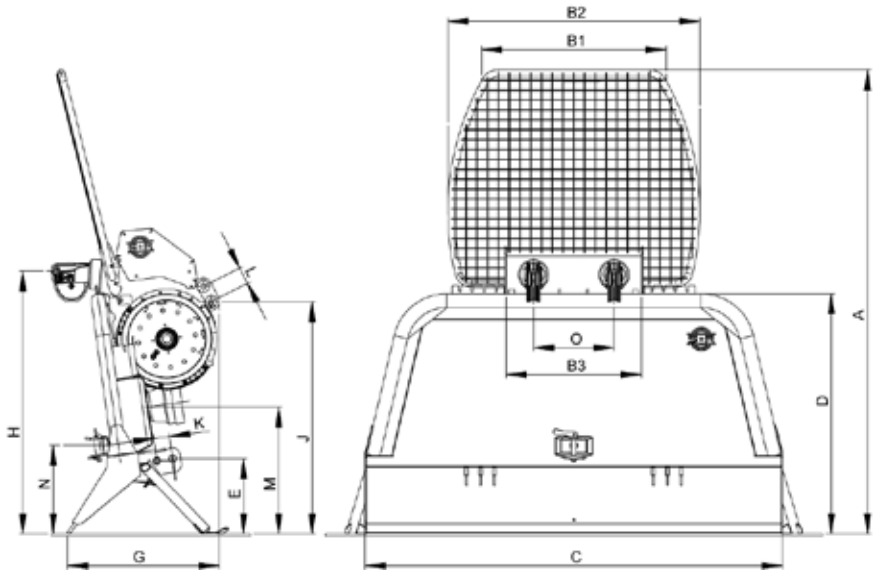
### Single drum geared cable winches

| | DW711 | DW861<br>DW1011<br>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<br>DW712 | DW862<br>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 |

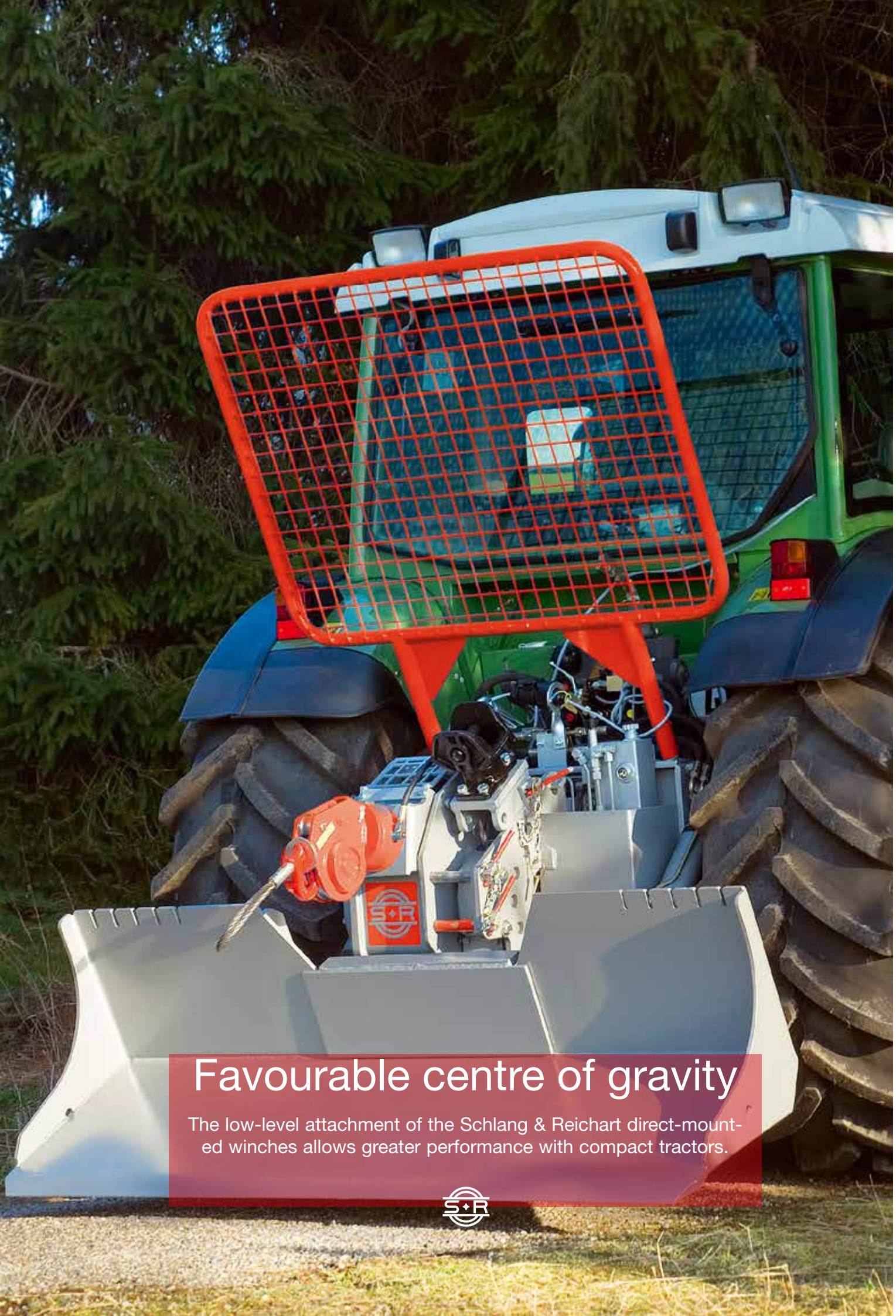



S+R

# Mounted winches

## Directly to full power

If a cable winch is used daily on a commercial basis, the choice of a Schlang & Reichart direct or fixed attachment winch is recommended. The reason for this is the different attachment of the cable winch and the supporting support to the tractor. The product range offers three different mounting options for different application areas and requirements.



# Favourable centre of gravity

The low-level attachment of the Schlang & Reichart direct-mounted winches allows greater performance with compact tractors.

# Directly mounted winches

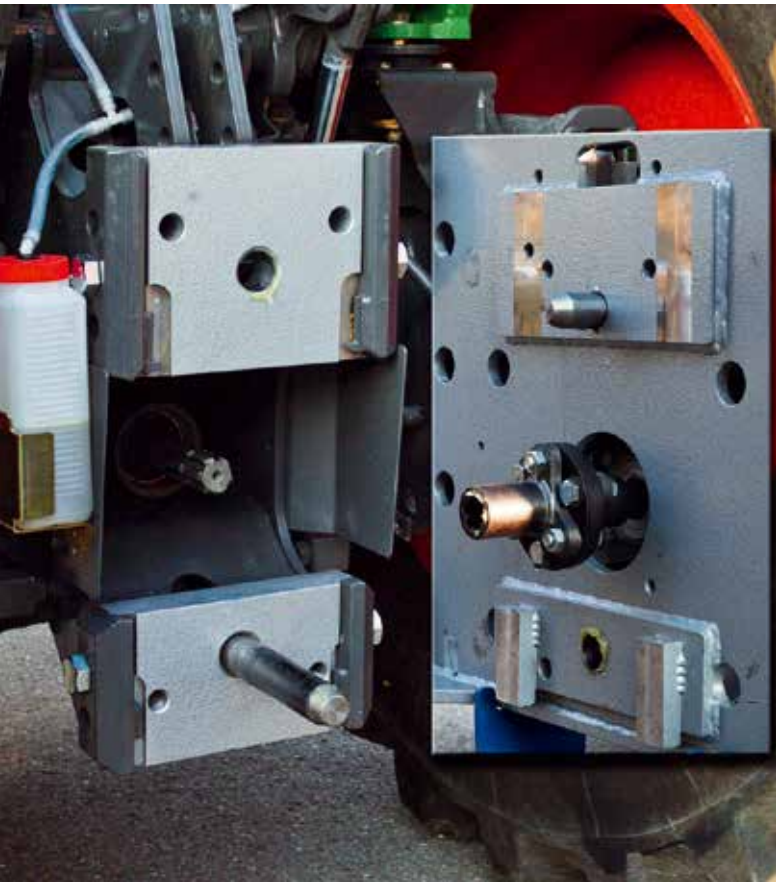
**Directly to full power**

Plug-in direct attachment winches also allow great pulling power with compact tractors. This is achieved by a deep mounting onto the tractor. The drive is directly connected to the tipper shaft of the tractor. In addition, the deep installation allows optimum stability and a perfect view of the support from the cabin.

Schlang & Reichart Direct attachment winches are attached to the tractor by means of an adapter plate in the towbar and can thus be mounted quickly and easily to various tractor units with different mounting plates. Due to the mounting of the brackets, the tractor remains free from loads when it is being placed, for the most part. The optimised console also allows the cable winch to be installed quickly and easily and without the need for an external lifting device. Only one stand support is required.

# Directly mounted winches

## Technical details



**The console**
The direct attachment winch is quickly and simply attached to the tractor by means of a mounting plate, which is fixed on the tractor side in the trailer jib. The attachment is thus universal and is possible on all tractors with height-adjustable suspension rails.
Each direct attachment winch can be attached to different tractors. For this, only one additional factory-specific adapter plate is required in the attachment bracket.

**Mounting and dismantling**
In a few minutes and without an additional lifting device, the direct attachment winch can be attached to or removed from the tractor. Only one supplied support is required.

**Technical details:**
All the technical features and advantages of the Schlang & Reichart transmission winches are also found in the direct and fixed attachment winches.

# Directly mounted winches

## Technical specs

| | DAW612 | DAW711 | DAW861 | DAW1011 |
|---|---|---|---|---|
| Traction in lower cable layer | *2x* 61 kN | 71 kN | 86 kN | 105 kN |
| Traction in upper cable layer | *2x* 42 kN | 51 kN | 61 kN | 74 kN |
| Maximum recommended cable length | Ø 11 mm x 140 m (per drum) | Ø 12 mm x 120 m | Ø 13 mm x 150 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 $^{m}/_{s}$ | 0,6 $^{m}/_{s}$ | 0,4 $^{m}/_{s}$ | 0,4 $^{m}/_{s}$ |
| Rotating pulley with cable entry brake | ● | ● | ● | ● |
| Cable distribution | ● | ● | ● | ● |
| Pressure roller | ● | ● | ● | ● |
| Wireless control system | Forestry wireless control F10 B & B or HBC Patrol<br>Electrical cable control acc. UVV with 5 metre Control cable prepared for radio | | | |
| Width of stacking shield | 1,800 mm - with lifting and printing cylinder | | | |
| Protective grille | For cabin disc acc. UVV | | | |
| Stand and mounting plate for tugs | ● | ● | ● | ● |
| Towing coupling pluggable | ● | ● | ● | ● |
| Safety test | According to KWF and CE directives | | | |

### Optional cable winch

**Cable guide**

| | | | | |
|---|---|---|---|---|
| TWIN rope emissions | ○ | ○ | ○ | ○ |
| Load valve via handwheel | ○ | ○ | ○ | ○ |
| Prop. brake valve by radio control | ○ | ○ | ○ | ○ |

**Stacking shield**

| | | | | |
|---|---|---|---|---|
| Stacking shield 2,000 mm | ○ | ○ | ○ | ○ |
| Stacking shield 2,200 mm | ○ | ○ | ○ | ○ |

● Standard ○ Option - not deliverable


# A true powerhouse.

A Schlang & Reichart plug-in and fixed attachment winch

turns a standard tractor into professional forestry tractor.

# Fixing and plugging winches

If a cable winch is used daily on a commercial basis, the choice of a Schlang & Reichart plug or fixed attachment winch is recommended. The reason for this is the different attachment of the cable winch and sprag bearing on the tractor, meaning that the tractor remains largely free of mechanical strain during winching.

Schlang & Reichart mounted winches consist of an adaptable modular system and can therefore be easily adapted to the almost all tractor types. The complete reliability and durability of the cable winches is guaranteed by the precision worm gear used in the winch assembly and the cylinder discs.
Depending on the requirements of the operator, the cable winches are available with various tractive powers, stacking shield widths and cable capacities.

# Fixing and plugging winches

## Technical details

**Stacking shield**
The split and high-pitched mountain support offers both a great excavation height and thus an optimal ground clearance as well as a secure stand for the rope work.

**Cable payout**
In order to increase the operating comfort and to optimise the cable winding quality, plug-in and fixed-attachment winches can be equipped with hydraulic cable ejection. The unwinding device installed in the cable inlet roller is hydraulically driven. The large support surface ensures safe operability even if the cable is soiled or damaged.

**Technical details:**
All the technical features and advantages of the Schlang & Reichart transmission winches are also found in the plug and fixed attachment winches.

# Fixing and plugging winches

## Technical specs

| | SW612 | SW711 | SW861 | SW862 | SW1011 | SW1012 | SW1212 |
|---|---|---|---|---|---|---|---|
| Traction in lower cable layer | 2x 61 kN | 71 kN | 86 kN | 2x 86 kN | 105 kN | 2x 105 kN | 2x 121 kN |
| Traction in upper cable layer[1] | 2x 42 kN | 51 kN | 61 kN | 2x 52 kN | 74 kN | 2x 73 kN | 2x 85 kN |
| Maximum recommended cable length (per drum) | Ø 11 mm x 140 m | Ø 12 mm x 120 m | Ø 13 mm x 90 m | Ø 13 mm x 100 m | Ø 14 mm x 90 m | Ø 14 mm x 85 m | Ø 15 mm x 75 m |
| Transmission | Self-locking worm gear and Angular gear on ZW stub | | | | | | |
| Multi-plate clutch | Sintered metal, self-adjusting | | | | | | |
| 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 | 0,4 m/s | 0,4 m/s | 0,4 m/s |
| Pressure roller | ● | ● | ● | ● | ● | ● | ● |
| Wireless control system | Forestry wireless control F10 B & B or HBC Patrol Electrical cable control acc. UVV with 5 metre Control cable prepared for radio | | | | | | |
| Width of stacking shield | Carrying support with lifting and pressure cylinder and hinged impact shield | | | | | | |
| Protective grille | For cabin disc acc. UVV | | | | | | |
| Centre stop and guard rail | ● | ● | ● | ● | ● | ● | ● |
| Lifting capacity | 3,900 kg | 3,900 kg | 3,900 kg | 3,900 kg | 3,900 kg | 3,900 kg | 3,900 kg |
| Lift height (depending on tractor type) | 900 mm | 900 mm | 900 mm | 900 mm | 900 mm | 900 mm | 900 mm |
| Swivel bracket (3-way height-adjustable) | ● | ● | ● | ● | ● | ● | ● |
| Mounting console | ● | ● | ● | ● | ● | ● | ● |
| Safety test | According to KWF and CE directives | | | | | | |

### Optional cable winch

**Cable guide**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Rotating pulley with cable entry brake | ● | ● | ● | ● | ● | ● | ● |
| TWIN rope emissions | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Cross spindle | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Load valve via handwheel | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Prop. brake valve by radio control | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

**Stacking shield**

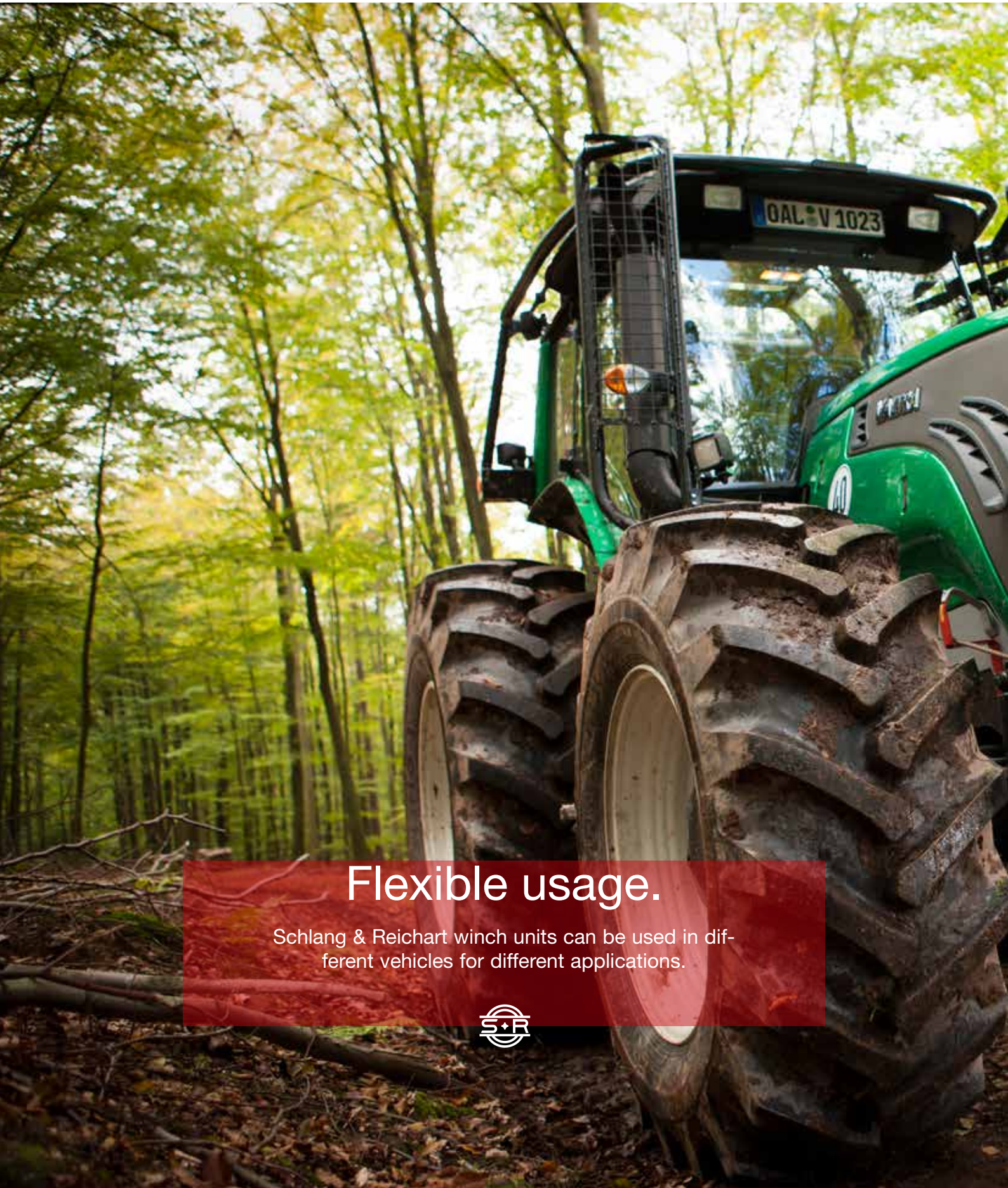
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Pivoting bracket with sprag | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Stacking shield 2,000 mm | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Stacking shield 2,200 mm | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Three-point mount for sprag | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Removable sprag, attachable Three-point holder | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| PTO shaft drive | ○ | ○ | ○ | | ○ | | |

**Extra information:**
The plug and fixed attachment winches listed on this page are also available as a front attachment kit.

● Standard ○ Option - not deliverable

# Cable winch units

## Pulling and securing with maximum reliability




## Flexible usage.

Schlang & Reichart winch units can be used in different vehicles for different applications.

Schlang & Reichart forestry winches are reliable in the agricultural and forestry sector and also wherever heavy loads have to be pulled or secured. The extensive product plate includes standard winches as well as customised special solutions.

# Compact installation.

The compact design of the winch winches allows uncomplicated installation even in confined spaces.

# Cable winch units

**The advantages of Schlang & Reichart Cable winch units**

- Optimal adaptation to the respective application area by individual assembly of the winch unit from a large module catalogue is possible
- Maximum precision when pulling and securing loads by multi-disc sintered metal disc clutch and brake
- Unique 2 circuit hydraulic circuit for exact and short response time of the control of 0.25 $sec^{-1}$
- Easy positioning of the cable winch unit in confined spaces thanks to its compact design
- Large accessory program with cable guide and winding systems, rope ejection, and much more.

## Technical specs

| Single drum | 711 | 861 | 1011 | 1211 | 1301 | 1601 |
|---|---|---|---|---|---|---|
| Traction in lower cable layer | 71 kN | 86 kN | 105 kN | 121 kN | 130 kN | 160 kN |
| Traction in upper cable layer | 52 kN | 52 kN | 73 kN | 85 kN | 95 kN | 115 kN |
| Maximum recommended Cable length | Ø 12 mm x 85 m | Ø 13 mm x 100 m | Ø 14 mm x 90 m | Ø 15 mm x 75 m | Ø 15 mm x 160 m | Ø 16 mm x 150 m |
| Worm and helical gear in oil bath | • | • | • | • | • | • |
| Clutch | | | Multi-plate sintered metal slats | | | |
| Brake | | | Multi-plate sintered metal slats | | | |

| Double drum | 612 | 712 | 862 | 1012 | 1302 | 1602 |
|---|---|---|---|---|---|---|
| Traction in lower cable layer | *2x* 61 kN | *2x* 71 kN | *2x* 86 kN | *2x* 105 kN | *2x* 130 kN | 2x 160 kN |
| Traction in upper cable layer | *2x* 45 kN | *2x* 52 kN | *2x* 52 kN | *2x* 73 kN | *2x* 95 kN | 2x 115 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 90 m | Ø 15 mm x 160 m | Ø 16 mm x 150 m |
| Worm and helical gear in oil bath | • | • | • | • | • | • |
| Clutch | | Multi-plate sintered metal slats | | | | |
| Brake | | Multi-plate sintered metal slats | | | | |

**Technical details:**
All the technical features and advantages of the Schlang & Reichart transmission winches are also found in the winch units.

# Recovery winches.

All Schlang & Reichart winch units are also available as recovery winches.

# Recovery winches 125 K

**The recovery winch for many applications**
Both in agriculture/forestry and in environmental management, a cable winch is often required to recover vehicles or items of equipment. The hydraulic recovery winch 125 K has been especially designed for this application. A simple, hydraulically actuated winch for the quick coupler - thus the assembly and dismantling is done in case of a manual recovery.

| | 125 K (Without shield) | 125 KS (For quick coupling) | 125 KFP (In front plate) |
|---|---|---|---|
| Traction in lower cable layer | 50 kN | 50 kN | 50 kN |
| Traction in upper cable layer[1] | 34 kN | 34 kN | 34 kN |
| Serial cable length (Highly compressed forestry rope with sliding hook) | Ø 12 mm x 50 m | Ø 12 mm x 50 m | Ø 12 mm x 50 m |
| Worm and spur gear In the oil bath | ● | ● | ● |
| Coupling for Rapid cable pay out | Jaw clutch | Jaw clutch | Jaw clutch |
| Average cable speed at 80 l | 10.0 $^{m}/_{min}$ | 10.0 $^{m}/_{min}$ | 10.0 $^{m}/_{min}$ |
| Width of stacking shield | - | 1,010 mm | 1,600 mm |
| Cable infeed roller | ● (without mounting) | ● | ● |
| Weight with cable | approx. 190 kg | approx. 220 kg | approx. 1,000 kg |

[1] Serial cable length
● Standard ○ Option - not deliverable

# Forwarding trailers

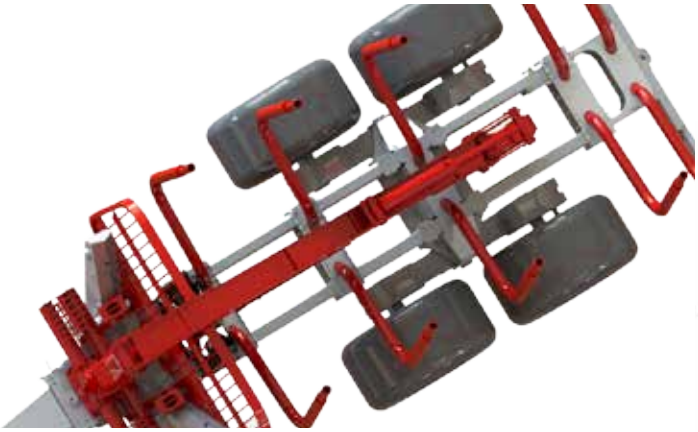
## For every application

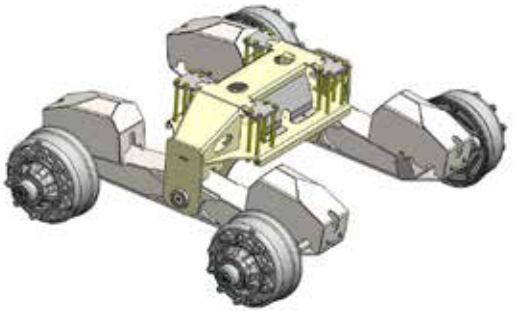
Individuality combined with maximum flexibility allows us to meet the demands of tomorrow. The forwarding trailers have been developed for professional use by forestry and forestry companies. The forwarding trailers by

Schlang & Reichart are suitable for every application under the toughest conditions and can be customised to specific requirements. Quality features of the forwarding trailers are e.g. the robust frame made of torsion-resistant fine-grained steel or the heavy-duty forestry cranes. In order to reach the work areas quickly, all forwarding trailers from Schlang & Reichart are delivered with a road approval. On request the vehicle can also be approved at 40 km/h.

# Forwarding trailers

## Technical details



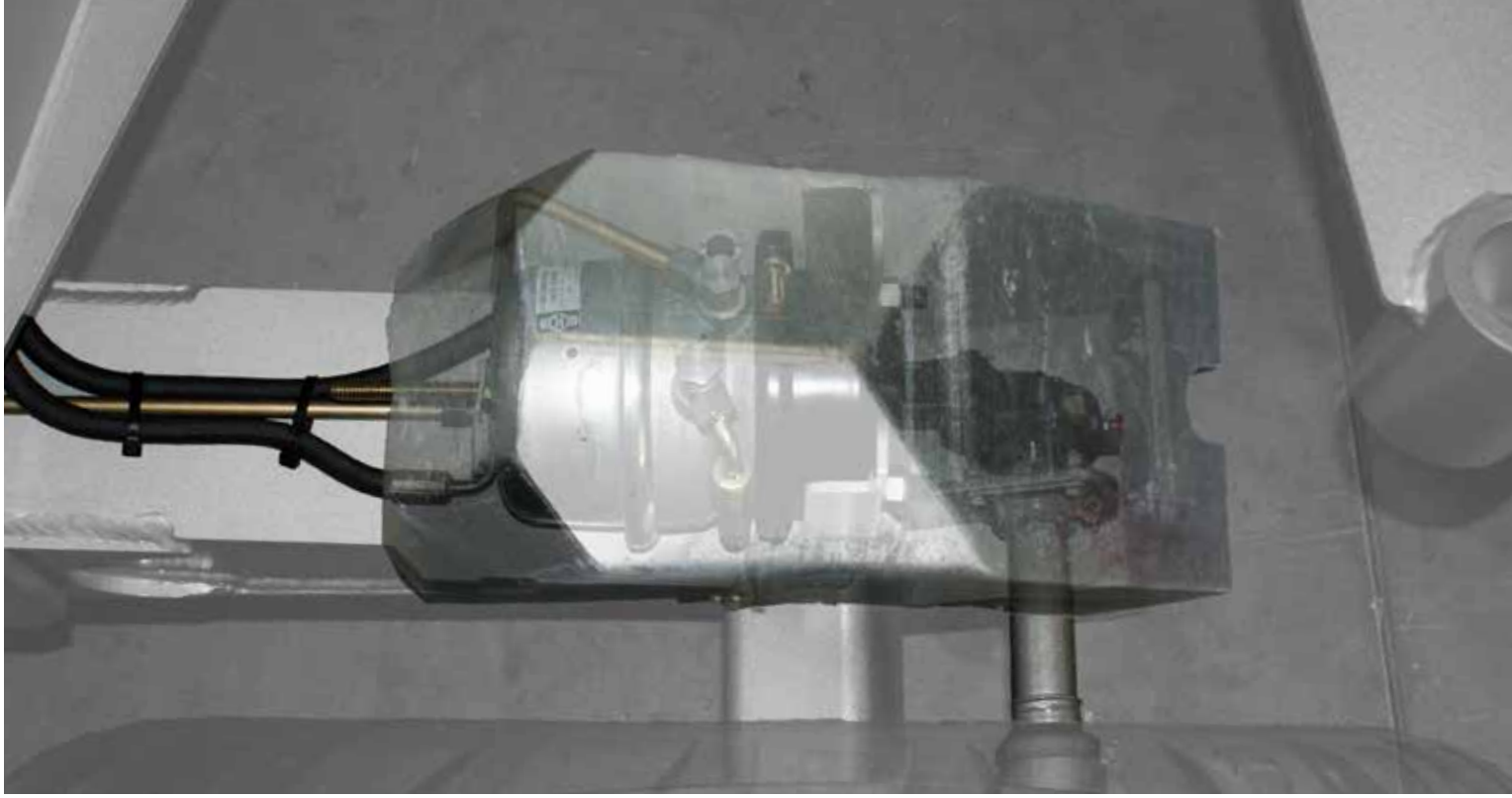


**Frame**
The robust frame consists of a torsion-resistant double frame made of fine grain steels. This ensures maximum ground clearance and stability. The torsional forces that are generated when working with loading cranes and driving on rough terrain can therefore be optimally absorbed by the frame.

The frame can be extended by 900 mm for a flexible adaptation of the forwarding trailer to different load lengths. The axle boom can also be shifted and the support load of the trailer can be adjusted (except SR.950).

**Bogie axle**
For ground-conserving driving and maximum off-road driving, the suspension of all Schlang & Reichart trailers is equipped with a boogie axle. This also significantly increases the stability in the crane work. In order to ensure a correct straight run over the years, the boogie axle is stored in adjustable and malleable spherical joint bearings.

**Hitch**
When forwarding, you can choose between different variants. In addition to an overhead suspension, this can also be designed as a bottom attachment. Both are also available as ball-and-socket hinges.



**Brake system and road approval**

The SR.950 forwarding trailer is equipped with a hydraulic 2-wheel brake as standard.

This can also be equipped with a hydraulic overrun brake. This is where the braking force from the start-up device transmits direct to the brakes without mediation by rods or Bowden cables that are vulnerable to faults. For increased safety when reversing and off road, the overrun brake is combined with an additional hydraulic brake that can be manually actuated via a tractor control unit.

The types SR.1100 and SR.1400 are equipped as standard with a compressed air brake with spring accumulator. Rides on public roads are possible with the standard TÜV approval, even with loading.

**Steerable draw bar**

Perfectly suited for riding in tight spaces is the standard steering column with a high steering angle. Two powerful lifting cylinders, which can be operated by the tractor, ensure reliable operation even when pivoting with a load-bearing trailer mounted against the slope.

In road driving, the operator can easily lock the drawbar in the one-man system.

**Transport systems**
For the transport of different cargoes, the trailer can be equipped with various transport systems.

The hot-dip galvanised section vessel (picture above, left half of the tank) is designed for transporting branch and cut material.

For the combined transport of logs and branch material the floor trough (picture above, right half of the bath) is suitable.

**LED lighting with indicator light**
The lighting of the trailer is important for road trips.

In order to preserve these in stock, this can simply be folded in.

Longer service life and reliability are therefore ensured.

**Storage box and holder**
Chain saws and fuel canisters can be practically and neatly stowed on the forwarding trailer. An additional, lockable storage bin is ideally suited for lashing belts, tools and other small items.


**Cranes**
Schlang & Reichart forestry cranes are designed for professional service. The crane program includes loading cranes in various lifting classes. All cranes come equipped with significant lifting force, as well as a high swinging moment.

The technical details can be found on page 58.


# Too little drive?

Schlang & Reichart forwarding trailers
can optionally also be fitted with drive systems.

# Forwarding trailer drive systems

**Hydraulic wheel hub drive**
The wheel hub drive made by Schlang & Reichart is the obvious choice in the forest and on the road, because in addition to the good roadability can be driven in the forest also with chains.

The wheel hub drive is equipped as standard with an electrical control unit. The driver is thus able to comfortably control the drive from the tractor cab. This allows the operator to switch between the simple drive for forward travel and reversing which is automatically switched off during braking and an uphill assist function.

**UniDRIVE wheel drive**
The new hydraulic wheel drive uniDRIVE sets new standards in price-performance ratio.

- Maximum thrust per wheel up to 2 t
- Maximum speed up to 8 km / h
- Hydraulic supply via oil supply or hydraulic system of the tractor
- Extending the drive prevents wear during road trips
- Mounting of anti-skid chains possible

# Forwarding trailers

## Technical specs

| Type | SR.950 | SR.1100 | SR.1400 | SR.1400X |
|---|---|---|---|---|
| Construction | Double frame construction clamped with profile pipe (200 x 100 mm) | | | |
| Frame extractor (mechanical) | - | 900 mm | 900 mm | 900 mm |
| Long flat bed | 4,000 mm | 4,000 mm | 4,000 mm | 4,000 mm |
| Front grille area | 2.37 m² | 2.37 m² | 2.94 m² | 3.10 m² |
| Empty weight (with crane in series edition) | 2,800 kg | 3,150 kg | 3,790 kg | 3,890 kg |
| Permitted total weight on public highways | 9,200 kg | 13,000 kg | 15,000 kg | 15,000 kg |
| Load capacity on non-public roads | 10,000 kg | 11,000 kg | 13,000 kg | 13,000 kg |
| Axle | sliding | sliding | sliding | sliding |
| Brake system | Hydrl.-2-wheel brake | Compressed air brake with spring accumulator | Compressed air brake with spring accumulator | Compressed air brake with spring accumulator |
| Brake surface | 300 x 90 mm 8-hole rim | 300 x 90 mm 8-hole rim | 406 x 120 mm 10-hole rim | 406 x 120 mm 10-hole rim |
| Tyres | 380/55-17“ 14 PR Groove tread | 480/45-17” 14PR Groove tread | 500/45-22.5” 12PR Groove tread | 500/45-22.5” 12PR Groove tread |
| Lighting | LED lighting acc. StVZO (protected in the frame) | | | |
| Operating station | Control panel on the draw bar | | | |
| Stabilisers | Flap-down support | | | |
| Stowage space | Lockable pole, holder for chainsaw and fuel canister | | | |
| **Crane** | **4267** | **4272** | **5280** | **5280** |
| Crane length | 6,340 mm | 7,140 mm | 7,800 mm | 7,800 mm |
| Lift moment net | 40.5 kNm | 40.5 kNm | 51.0 kNm | 51.0 kNm |
| Pivoting moment | 15.2 kNm | 15.2 kNm | 22.0 kNm | 22.0 kNm |
| Crane control | 8-way mechanical, 2 control toggles with2 electrical functions for gripper and telescope | | | |
| Grippers | Two-row gripper type 230 (opening width 1.250 mm) | | | |
| Acceptance certificates | UVV acceptance of the trailer with crane book, 25 km / h operating license | | | |

| Optional Forwarding trailer equipment | SR.950 | SR.1100 | SR.1400 | SR.1400X |
|---|---|---|---|---|
| **Tyres** | | | | |
| 480/45-17“ Vredenstein | ○ | ● | - | - |
| 520/50-17“ 14 PR Starco forestry wheel | ○ | ○ | - | - |
| 560/45-22.5“ 10-hole rim, Trelleborg | - | ○ | ○ | ○ |
| 600/50-22.5“ 10-hole rim | - | - | ○ | ○ |
| **Brakes** | | | | |
| Hydrl. Overrun brake with Rückmatic | ○ | - | - | - |
| Hydraulic brake on 4 wheels | ○ | ○ | ○ | ○ |
| Compressed air braking system on 4 wheels | ○ | ● | ● | ● |
| Combination brake hydrl. and compressed air braking system on 4 wheels | ○ | ○ | ○ | ○ |
| **Transport systems** | | | | |
| Cut material pan | ○ | ○ | ○ | ○ |
| Floor tubing approx. 4,000 mm | ○ | ○ | ○ | ○ |
| **Other accessories** | | | | |
| Ball head K80 | ○ | ○ | ○ | ○ |
| Draw bar, bottom hitch | ○ | ○ | ○ | ○ |
| Mudguard incl. TÜV approval 40 km / h | ○ | ○ | ○ | ○ |
| **Crane accessories** | | | | |
| Loading crane 4272 (Crane length 7.140 mm / lifting torque net 40.5 kNm) | ○ | ● | - | - |
| Loading crane 4280 (Crane length 7.850 mm / lifting torque net 40.5 kNm) | - | ○ | - | - |
| Loading crane 5280 (Crane length 7.800 mm / lifting torque net 50 kNm) | - | ○ | ● | ● |
| Loading crane 5286 - Double telescope (Crane length 8.600 mm / lifting torque net 50 kNm) | - | ○ | ○ | ○ |
| Loading crane 52100 (Crane length 9.800 mm / lifting torque net 51 kNm) | - | ○ | ○ | ○ |
| Pendulum with internal concealed hoses | ○ | ○ | ○ | ○ |
| Gripper 230, 4-finger | ○ | ○ | ○ | ○ |
| Gripper 270 (opening width 1.560 mm) | ○ | ○ | ○ | ○ |
| Gripper 270, 4-finger | ○ | ○ | ○ | ○ |
| Crane winch 1.5 t pulling force | ○ | ○ | ○ | ○ |
| Own oil supply with piston pump | ○ | ○ | ○ | ○ |
| Hydraulic oil cooler | ○ | ○ | ○ | ○ |
| EHC control with radio or joysticks | ○ | ○ | ○ | ○ |

[1] Serial cable length
● Standard ○ Option - not deliverable

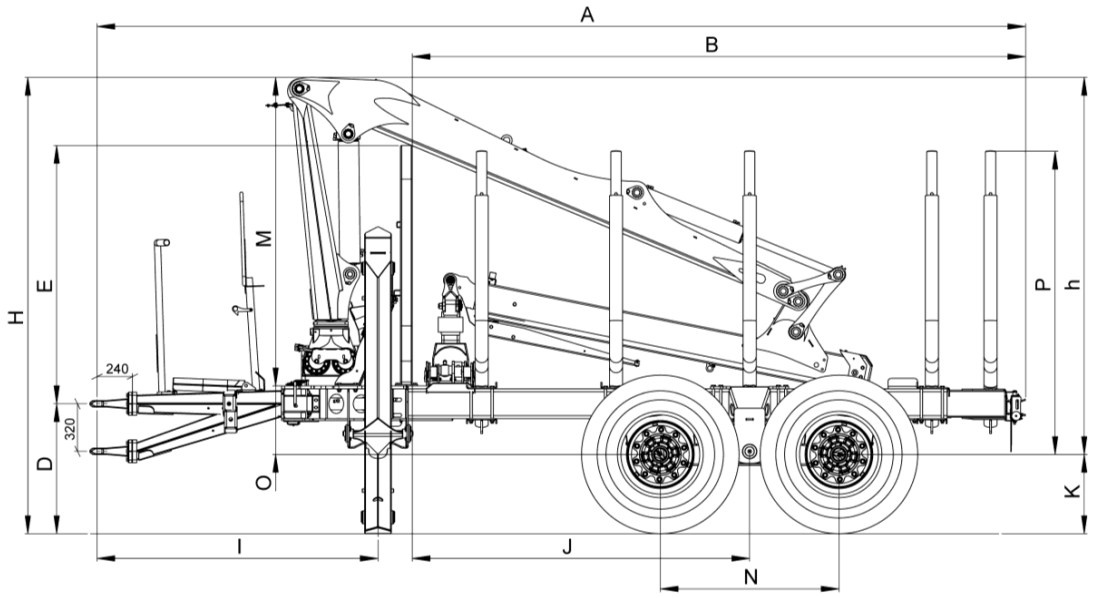
The Schlang & Reichart trailers SR.1100 and SR.1400 can be equipped with additional crane types.

# Forwarding trailers

## Dimensions

| Type | | SR.950 | SR.1100 | SR.1400 | SR1400X |
|---|---|---|---|---|---|
| A [mm] Total length | | 5,950 | 6,290, 6,790 or 7,290 | 6,290, 6,790 or 7,290 | 6,290, 6,790 or 7,290 |
| B [mm] Charging length | | 3,800 | 4,150, 4,650 or 5,150 | 4,150, 4,650 or 5,150 | 4,150, 4,650 or 5,150 |
| C [mm] External width | max.[1] | | | | |
| | min.[2] | | | | |
| D [mm] Height of drawing lug Drawbar straight | max.[1] | 900 | 913 | 936 | 981 |
| | min.[2] | 825 | 832 | 911 | 911 |
| D [mm] Height of drawing lug Drawbar cranked | max.[1] | 580 | 593 | 616 | 661 |
| | min.[2] | 505 | 512 | 591 | 591 |
| E [mm] Grid height above drawbar eye For cranked drawbar + 320 mm | | 1,390 | 1,490 | 1,490 | 1,740 |
| E [mm] Width of front grille | | 1,900 | 2,100 | 2,100 | 2,100 |
| F [mm] Ground clearance | max.[1] | 605 | 618 | 626 | 671 |
| | min.[2] | 530 | 537 | 601 | 601 |
| G [m2] Loading cross section | | 2.37 | 2.37 | 2.94 | |
| H [mm] Height of axle centre | | 1740 | 1,730 | 1,830 | 2,080 |
| H [mm] Total height | max.[1] | 2,750 | 2,763 | 3,016 | 3,016 |
| | min.[2] | 2,675 | 2,682 | 2,991 | 2,991 |
| I [mm] Drawbar eye to support | | 1,900 | 1,900 | 1,900 | 1,900 |
| J [mm] Centre of the axle to the front grille | | 2,285 | 2,285 | 2,285 | 2,285 |
| K [mm] Height of tyres Static semi-knife | max.[1] | 430 | 450 | 475 | 520 |
| | min.[2] | 355 | 369 | 450 | 450 |
| L [mm] External width of stanchions | | 1,950 | 1,950 | 2,150 | 2,150 |
| M [mm] Height of the crane column | 67.42/ 72.42/ 80.42 | 1,850 | 1,850 | 2,080 (high column) | 2,080 (high column) |
| | 80.52/ 100.52/ 80.62/ 100.62 | - | - | 2,080 | 2,080 |
| N [mm] Track width axis | | 1,120 | 1,120 | 1,210 | 1,210 |
| O [mm] Centre of axis to flange surface crane | | 470 | 463 | 461 | 461 |
| P [mm] Height of the axle to the centre of the axle | | 1,630 | 1,623 | 1,741 | 2,037 |

[1] largest tyre variant
[2] smallest tyre variant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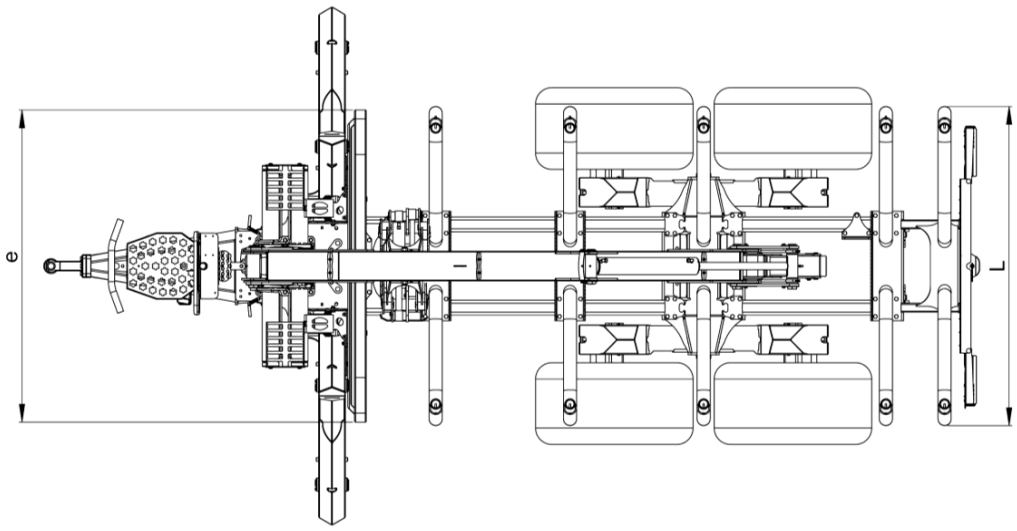
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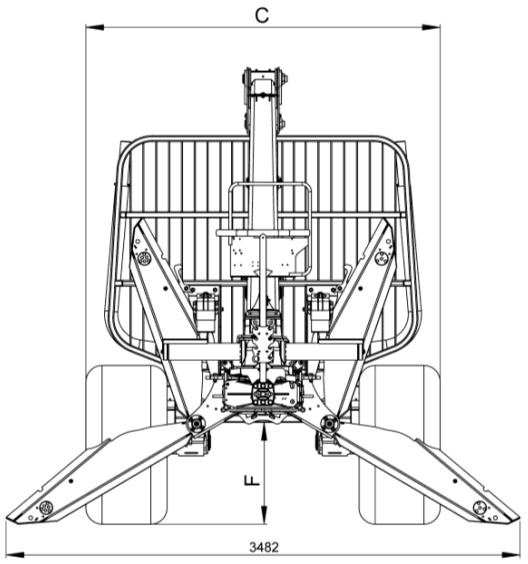
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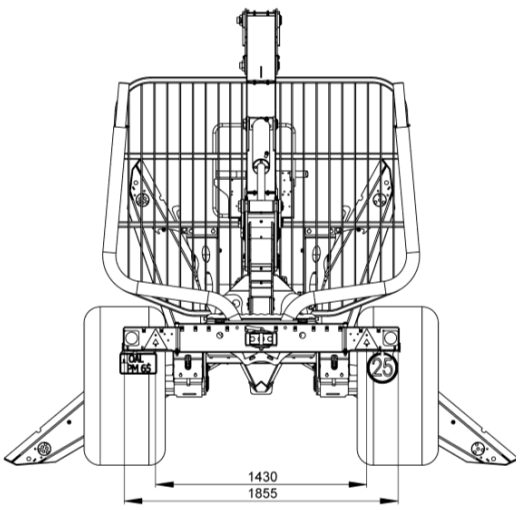
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# Cranes

## For every application

The modern and high-performance forestry cranes by Schlang & Reichart forestry cranes are designed for professional service. The forest cranes are designed for loading and backing short logs. They can also be built on agricultural tractors. The crane program offers forestry cranes in various performance classes with a capacity of up to 10.0 m and a lifting capacity of 9.0 m / t. In addition to the L-crane for forestry trailers, Schlang & Reichart also offers Z-cranes. These are predominantly installed on the Schlang & Reichart unimog trailer.

# Cranes

## Technical details


**Crane construction & testing**
Schlang & Reichart foresty cranes are made of especially tough special steel. The crane is rated according to crane loading class B4 for permanent dynamic loading.

Safety at handling forestry machines is a top priority at Schlang & Reichart. All cranes come with a crane test log and initial acceptance by an independent crane expert in accordance with the regulations of the BG.

**Crane geometry**
Schlang & Reichart forestry cranes achieve a perfect crop geometry through the so-called power link system, the knee lever system between main boom and articulated boom. Since the articulated arm can be angled up to the main arm, loading is possible directly on the front grille. As a result, the working speed is significantly increased and the range of the crane is also increased.

**On-board hydraulics**
The equipment of the trailer with its own oil circuit offers many advantages and is possible for all Schlang & Reichart forestry cranes. This variant of the hydraulic supply is ideal for vehicles with low hydraulic power and for common use with different tractors. The hydraulic oil tank is protected between the support and the hydraulic pump integrated into the drawbar.

**Slewing gear**
The four-cylinder swivel of Schlang & Reichart forestry cranes is particularly sturdy and strong. This guarantees a high pivoting moment, which also allows a comfortable and powerful loading against the slope. The large distance between the bearings and the oil immersion bath ensure reliable operation. Shear forces that are generated when working with heavy trunks are safely absorbed.


**Hose routing**
Low downtimes and maximum safety are the goals for crane work. The protected hose routing from the control block to the crane tip secures these objectives. Schlang & Reichart therefore attaches the highest priority to ensuring that the hydraulic hoses are protected over the entire crane by being concealed (internal routing). At points of high physical loading, the hoses are laid in a hose shaft. Additional rotary cutouts increase the service life of the hydraulic hoses.

**Rapid traverse valve**
Schlang & Reichart forestry cranes are fitted as standard with a rapid flow valve. This enables the rapid telescopic extension even in the case of telescopic booms with only one extension. The electrically control rapid traverse valve directs the hydraulic oil, which flows from the cylinder straight back into the latter and thus achieves an approx. 1.5 fold extension speed.

**Crane control**
The highest performance is achieved when the controls are perfectly ergonomic. This is determined by the operating position and the crane controller. Schlang & Reichart forestry cranes are equipped as standard with a mechanical control block, which has two cross levers each with an electrical switch. This means that the individual boom movements can be easily and rapidly coordinated, without having to reach for different control levers or turning. In addition to a mechanical crane control, the crane can also be operated via an EHC controller with a cord or wireless control panel. The crane can also be controlled via two toggle switches that are installed on a rotary seat in the tractor.


**Operating station**
The serially installed Schlang & Reichart operator station on the trailer body provides a clear working position outside the hazardous area with the best view of the loading crane and the safety-relevant environment. The back rest of the platform and the hand guard over the control toggles optimize the operator's safety and ensure that he adopts an ergonomic working stance.


**Stabilisers**
All cranes are equipped with a flap-down support at Schlang & Reichart. Thanks to a wide supporting position, this provides optimum stability when working with the loading crane. In contrast to other support systems, this form of support also allows a safe working position when standing on a slope. Thanks to a special protection system, the powerful cylinders are not damaged even in the case of falling trunks.

**Crane cable winch**
The optionally available crane winch with radio control increases the working range of the crane and enables trunks which lie outside the range of the crane.
The pulling force is 1.5 t. in series the crane winch is equipped with with a 30 m cable. Optionally up to a 50 m cable can be supplied.


**Implements**
Schlang & Reichart cranes can be equipped with various working tools for ergonomic and safe loading work. A 4-fingear gripper can also be mounted next to the two-blade gripper. With this, the loading of branch and cutting material is made much easier. Clam shell grippers can be mounted on the regular grippers for loading dry bulk.


**Operating hours counter**
The operating hours counter records the hours in which the loading crane is service. This is especially useful if the forwarding trailer is shared by several users or is hired out.

**Trunk scraper**
A trunk scraper facilitates loading work with the forestry crane, especially with long sections or very long treetop material. The scraper is mounted on the main boom of the crane.

# Loading crane with top-mounted cylinder

## Technical specs

| Loading crane | 4167 | 4177 | 5169 | 5180 | 5186 |
|---|---|---|---|---|---|
| Crane length | 6,620 mm | 7,550 mm | 6,710 mm | 8,000 mm | 8,600 mm |
| Lift moment net | 52 kNm | 52 kNm | 69 kNm | 69 kNm | 51 kNm |
| Lift moment net | 41 kNm | 41 kNm | 51 kNm | 51 kNm | 51 kNm |
| Telescope | single | single | single | single | double |
| Pivoting moment | 15.2 kNm | 15.2 kNm | 21.5 kNm | 21.5 kNm | 21.5 kNm |
| Slewing range | 370° | 370° | 370° | 370° | 370° |
| Rotator, infinite | 4.5 t | 4.5 t | 4.5 t | 4.5 t | 4.5 t |
| Grippers | Two-row gripper type 230 (opening width 1.250 mm) | | | | |
| Crane control | 2 control toggles with 2 electrical functions | | | | |
| Operating pressure | 190 bar | 190 bar | 190 bar | 190 bar | 190 bar |
| Pump flow rate recommended | 35 - 90 l/min | 35 - 90 l/min | 50 - 100 l/min | 50 - 100 l/min | 50 - 100 l/min |
| Weight (approx.) | 825 kg | 905 kg | 935 kg | 1,035 kg | - |

| Loading crane | 51100 | 6169 | 6180 | 6186 | 61100 |
|---|---|---|---|---|---|
| Crane length | 10,000 mm | 6,710 mm | 7,980 mm | 8,600 mm | 9,950 mm |
| Lift moment net | 69 kNm | 86 kNm | 86 kNm | 86 kNm | 86 kNm |
| Lift moment net | 51 kNm | 61 kNm | 61 kNm | 61 kNm | 61 kNm |
| Telescope | double | single | single | double | double |
| Pivoting moment | 21.5 kNm | 25 kNm | 25 kNm | 25 kNm | 25 kNm |
| Slewing range | 370° | 370° | 370° | 370° | 370° |
| Rotator, infinite | 4.5 t | 6.0 t | 6.0 t | 6.0 t | 6.0 t |
| Grippers | Two-row gripper type 230 (opening width 1.250 mm) | | | | |
| Crane control | 2 control toggles with 2 electrical functions | | | | |
| Operating pressure | 190 bar | 215 bar | 215 bar | 215 bar | 215 bar |
| Pump flow rate recommended | 50 - 10 l/min | 50 - 10 l/min | 50 - 10 l/min | 50 - 10 l/min | 50 - 10 l/min |
| Weight (approx.) | 1,125 kg | 935 kg | 1,035 kg | - | 1,125 kg |

# Loading cranes with standing cylinder (bottom)

## Technical specs

| Loading crane | 4267 | 4272 | 4280 |
|---|---|---|---|
| Crane length | 6,370 mm | 7,140 mm | 7,850 mm |
| Lift moment net | 56 kNm | 56 kNm | 56 kNm |
| Lift moment net | 40.5 kNm | 40.5 kNm | 41 kNm |
| Telescope | single | single | single |
| Pivoting moment | 15.2 kNm | 15.2 kNm | 15.2 kNm |
| Slewing range | 370° | 370° | 370° |
| Rotator, infinite | 4.5 t | 4.5 t | 4.5 t |
| Grippers | Two-row gripper type 230 (opening width 1.250 mm) | | |
| Crane control | 2 control toggles with 2 electrical functions | | |
| Operating pressure | 190 bar | 190 bar | 190 bar |
| Pump flow rate recommended | 35 - 90 l/min | 35 - 90 l/min | 35 - 90 l/min |
| Weight (approx.) | 910 kg | 990 kg | 1,070 kg |

| Loading crane | 5280 | 5285 | 5286 | 52100 |
|---|---|---|---|---|
| Crane length | 7,800 mm | 8,500 mm | 8,600 mm | 9,800 mm |
| Lift moment net | 70 kNm | 70 kNm | 70 kNm | 70 kNm |
| Lift moment net | 50 kNm | 50 kNm | 50 kNm | 51 kNm |
| Telescope | single | single | double | double |
| Pivoting moment | 21.5 kNm | 21.5 kNm | 21.5 kNm | 21.5 kNm |
| Slewing range | 370° | 370° | 370° | 370° |
| Rotator, infinite | 4.5 t | 4.5 t | 4.5 t | 4.5 t |
| Grippers | Two-row gripper type 230 (opening width 1.250 mm) | | | |
| Crane control | 2 control toggles with 2 electrical functions | | | |
| Operating pressure | 205 bar | 205 bar | 205 bar | 210 bar |
| Pump flow rate recommended | 50 - 100 l/min | 50 - 100 l/min | 50 - 120 l/min | 50 - 120 l/min |
| Weight (approx.) | 1,150 kg | - | 1,240 kg | 1,290 kg |

| Loading crane | 6280 | 6286 | 62100 |
|---|---|---|---|
| Crane length | 7,750 mm | 8,600 mm | 9,590 mm |
| Lift moment net | 79 kNm | 79 kNm | 79 kNm |
| Lift moment net | 61 kNm | 62 kNm | 62 kNm |
| Telescope | single | double | double |
| Pivoting moment | 25 kNm | 25 kNm | 25 kNm |
| Slewing range | 370° | 370° | 370° |
| Rotator, infinite | 4.5 t | 4.5 t | 6.0 t |
| Grippers | Two-row gripper type 230 (opening width 1.250 mm) | | |
| Crane control | 2 control toggles with 2 electrical functions | | |
| Operating pressure | 220 bar | 220 bar | 220 bar |
| Pump flow rate recommended | 50 - 120 l/min | 50 - 120 l/min | 50 - 120 l/min |
| Weight (approx.) | 1,180 kg | 1,270 kg | 1,310 kg |

# Construction cranes

## Technical specs

| Loading crane | 5153 | 5167 | 7169 |
|---|---|---|---|
| Crane length | 5,090 mm | 6,830 mm | 6,930 mm |
| Lift moment net | 69 kNm | 69 kNm | 106 kNm |
| Lift moment net | 51 kNm | 51 kNm | 7 kNm |
| Telescope | single | double | double |
| Pivoting moment | 21.5 kNm | 21.5 kNm | 27 kNm |
| Slewing range | 160° | 160° | 160° |
| Rotator, infinite | 6.0 t | 6.0 t | 10.0 t |
| Grippers | Two-row gripper type 270 (opening width 1.560 mm) | | |
| Crane control | 6-way EHC control with 2 joysticks | | |
| Operating pressure | 190 bar | 190 bar | 210 bar |
| Pump flow rate recommended | 35 - 90 l/min | 35 - 90 l/min | 50 - 100 l/min |
| Weight (approx.) | 820 kg | 850 kg | 1,220 kg |

| Loading crane | 7182 | 7185 | 71100 |
|---|---|---|---|
| Crane length | 8,190 mm | 8,300 mm | 10,000 mm |
| Lift moment net | 106 kNm | 106 kNm | 112 kNm |
| Lift moment net | 70 kNm | 70 kNm | 70 kNm |
| Telescope | double | double | double |
| Pivoting moment | 32 kNm | 27 kNm | 27 kNm |
| Slewing range | 160° | 360° | 360° |
| Rotator, infinite | 10.0 t | 10.0 t | 10.0 t |
| Grippers | Two-row gripper type 360 (opening width 1.840 mm) | | |
| Crane control | 6-way EHC control with 2 joysticks | | |
| Operating pressure | 210 bar | 210 bar | 210 bar |
| Pump flow rate recommended | 50 - 100 l/min | 50 - 100 l/min | 50 - 100 l/min |
| Weight (approx.) | 1,360 kg | 1,320 kg | 1,420 kg |

# Z-cranes

## Technical specs

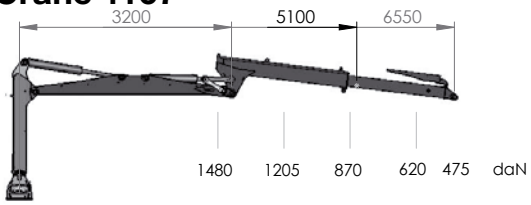
| Loading crane | Z4359 | Z5376 | Z5388 |
|---|---|---|---|
| Crane length | 5,700 mm | 7,600 mm | 8,800 mm |
| Lift moment net | 40.5 kNm | 51 kNm | 51 kNm |
| Telescope | single | single | double |
| Pivoting moment | 15.2 kNm | 21.5 kNm | 21.5 kNm |
| Slewing range | 370° | 370° | 370° |
| Grippers | Two-row gripper type 230 (opening width 1.250 mm) | | |
| Crane control | 2 control toggles with 2 electrical functions | | |
| Operating pressure | 190 bar | 190 bar | 200 bar |
| Pump flow rate recommended | 35 - 90 l/min | | |
| Weight (approx.) | 945 kg | 1,125 kg | 1,180 kg |

The stated lift moments are maximum values and do not indicate the continuous lifting force All figures are understood to exclude gripper and rotator The maximum lifting force can only be achieved when sufficient hydraulic pressure is provided by the tractor unit or on the on-board hydraulics. The maximum system pressure must be adjusted so that the stability of the vehicle is assured.

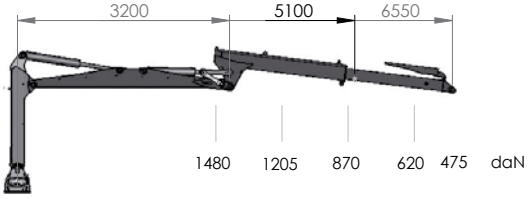
# Cranes

## Stroke diagrams and dimensions

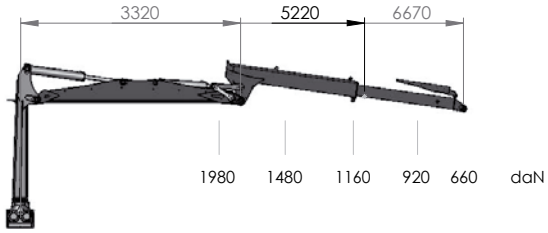
### Crane 4167



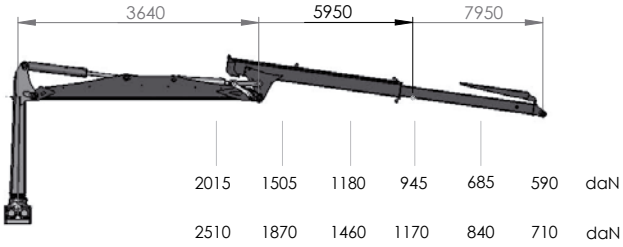

### Crane 4177



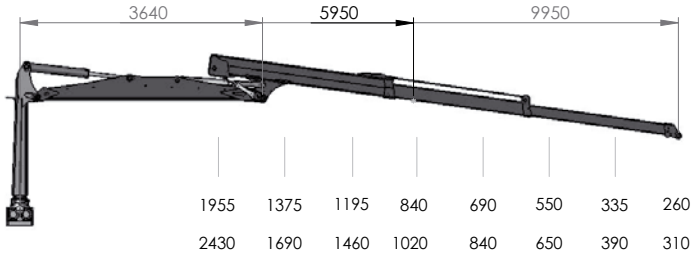

### Crane 5169




### Crane 5180
### Crane 6180




### Crane 51100
### Crane 61100

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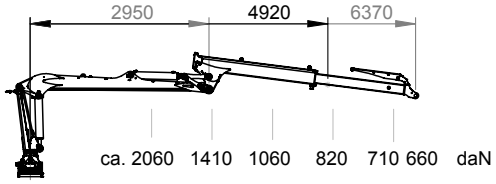


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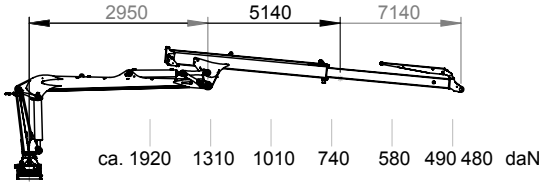
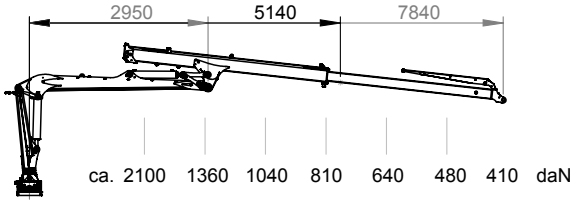
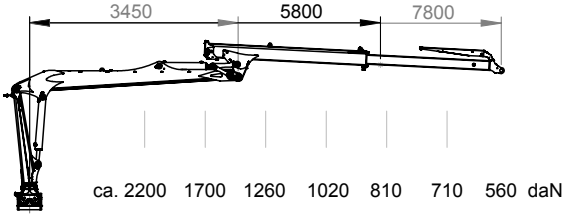



### Crane 4280




### Crane 5280

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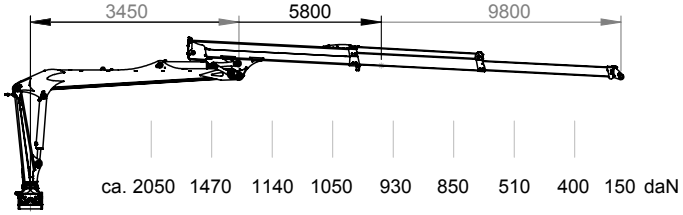
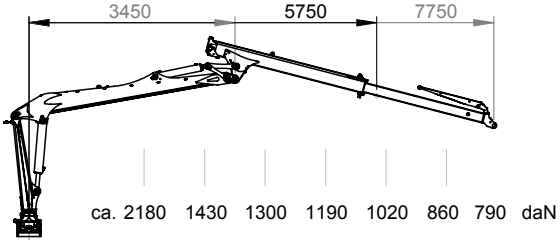
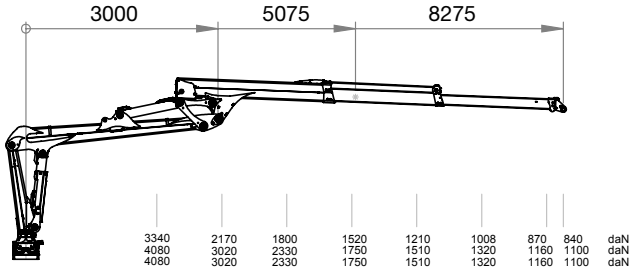


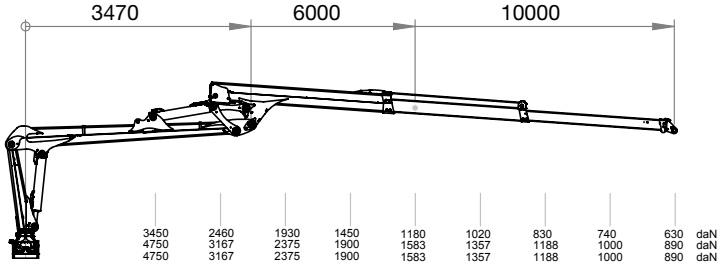

### Crane 6280



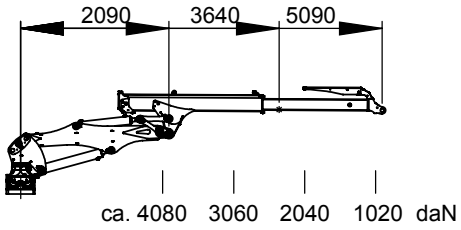
## Crane 7185
## Crane 9185
## Crane 9385



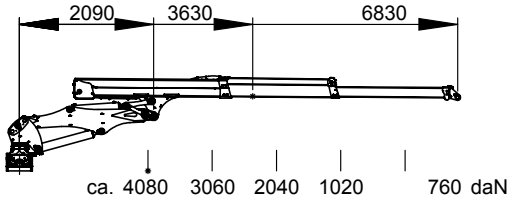

## Crane 71100
## Crane 91100
## Crane 93100



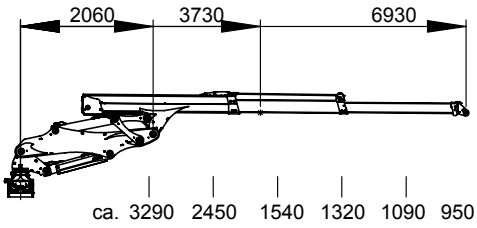

## Crane 5153




## Crane 5167



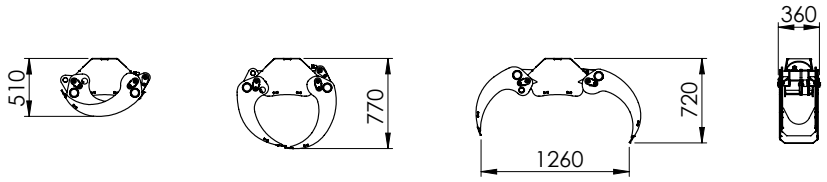

## Crane 7169



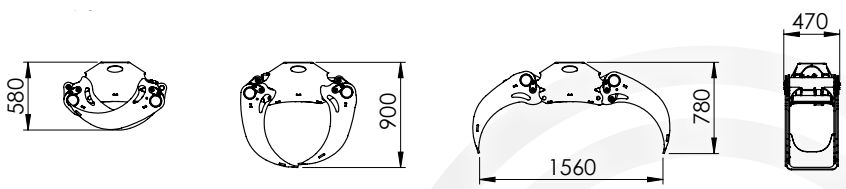

# Grippers

**Gripper type 230**

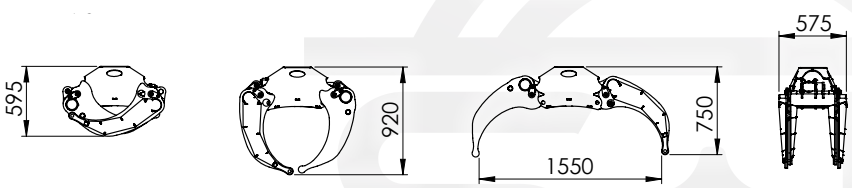
**Gripper type 230, 4-finger**



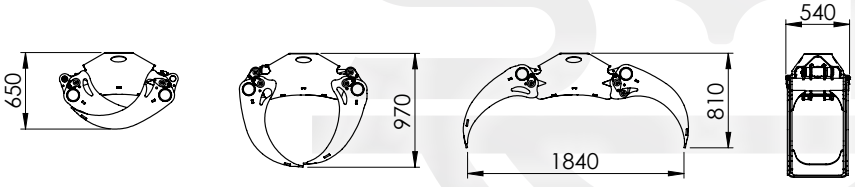

**Type 270**




**Type 270, 4-finger**




**Gripper type 360**



# Forestry protection devices

The Schlang & Reichart Research Program provides forestry protection equipment for almost all tractor models from the various manufacturers.

The range includes underrun protection, gearbox, engine, axle and tank cladding and branch protection for the cab. Quick-fit mudguards, lighting and mirrors are also available.

# Forestry protection devices

1. Lighting protection
2. Service friendly
3. Engine hood protection
4. Cab protection
5. Tank protection
6. Front axle protection
7. Front stacking shield unit
8. Floor pan





4


4
Lindner


4


5


6


7


8


8

# Schlang & Reichart unimog programme

The Schlang & Reichart cultivation program is as varied as the Unimog itself. Today, from the standardised front-end caps to the customer-specific system solution, we offer you comprehensive solutions for nearly all applications of the Unimog. In order to ensure that you do not lose the flexibility of the Unimog, Schlang & Reichart Unimog products are always easy and quick to install and the vehicle can also be used for other attachments.

Information about the Schlang & Reichart Unimog products can be found in the Unimog program *brochure*.

Schlang & Reichart

*Stark im Forst!*

Presented by: