



MM FORST
TECHNIK



SYNCROFALKE®
Cable yarder

MM cable yarder system



Innovation

The cable yarders from Mayr-Melnhof are universal pro-machines and allow a protective timber harvesting with 2 or 3 cables, downhill, uphill and in plain.

Our TÜV certified cable yarders fulfill highest security standards and guarantee a constant reliability, robustness and value resistance.

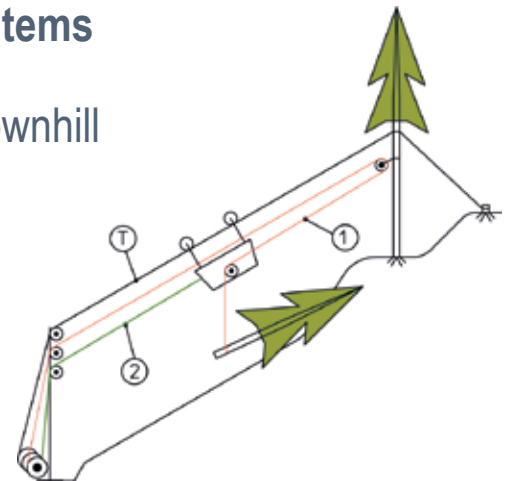
Characteristics

- Tower tilt up to 12° all sides
- Tower swivel range up to 360°
- All-terrain operation
Downhill, uphill and plain
- Fuel-saving drive system
- Remote control:
 - Automatic distance
 - Individual speed
 - Proportional joystick functions for a controlled load lowering
 - Wide range of the remote system
 - Low power consumption

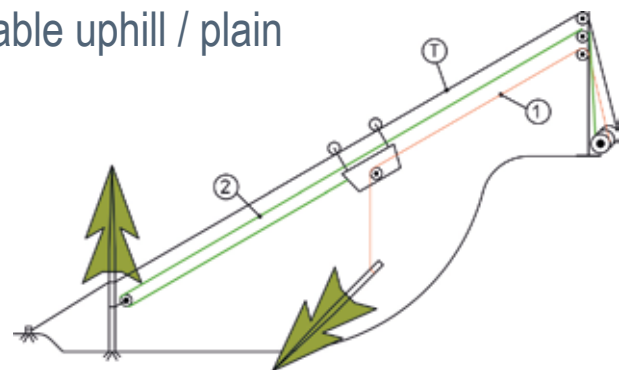


Cable systems

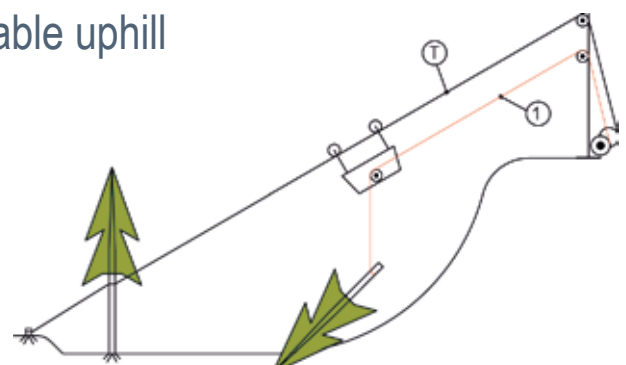
3-cable downhill



3-cable uphill / plain



2-cable uphill





Specifications

- **Patented principle of synchronised drums**
- **Maximum cable speed up to 10m/s**
- **1000mm diameter of the center of the drums for highest care of cables**
- **Wide range up to 900m skyline**
- **Pulling load three or four tons**
- **Load-dependent fast gear**

The working principle of the winch unit is based on two big drums with the two working cables mounted on a single shaft. These two cables are reeled up in counter wise rotation sense. The main hydraulic motor drive both drums, the speed of the working cables is highly synchronised. Minor differences caused by the number of cable layers are compensated automatically by an additional hydraulic motor.

This innovative and practical “SYNCRO”-principle allows an efficient and secure timber harvesting especially downhill.

The load-dependent fast gear reaches the SYNCROFALKE® to optimal load/speed ratio and thus increases the number of load cycles. Available as an option.



SYNCROFALKE®





01 MM-SHERPA®

On the SYNCROFALKE® cable yarder the universal carriage MM-SHERPA® is taking over the timber transportation.

02 Telescopic mast

The hydraulic telescope guarantees quick and simple mounting. The anchor winds are placed on the mast and are optionally driven hydraulic and radio commanded.

03 Processor crane

The shock-absorption is lowering the burden to the machine and machinist. The range of the processor crane is up to 9,4 meters and all different kinds of processor heads can be installed.

04 Diesel-hydraulic drive

The optimal balanced drive in combination with the latest diesel engines having Load-Sensing-Technology allows a fuel saving service.

05 Comfort cabin

The MM comfort cabin is not only protecting from weather but also with its FOPS structured windows from dangerous objects. The standard design includes one front and one side door, heated seat and radio but optionally also aircondition or shock absorbing seat mounting.

06 Hydraulic cable redirection

Option

A save and simple service is allowed by an hydraulic redirection of the carrying rope from the storage drum to the tension drum.

07 Winding drum

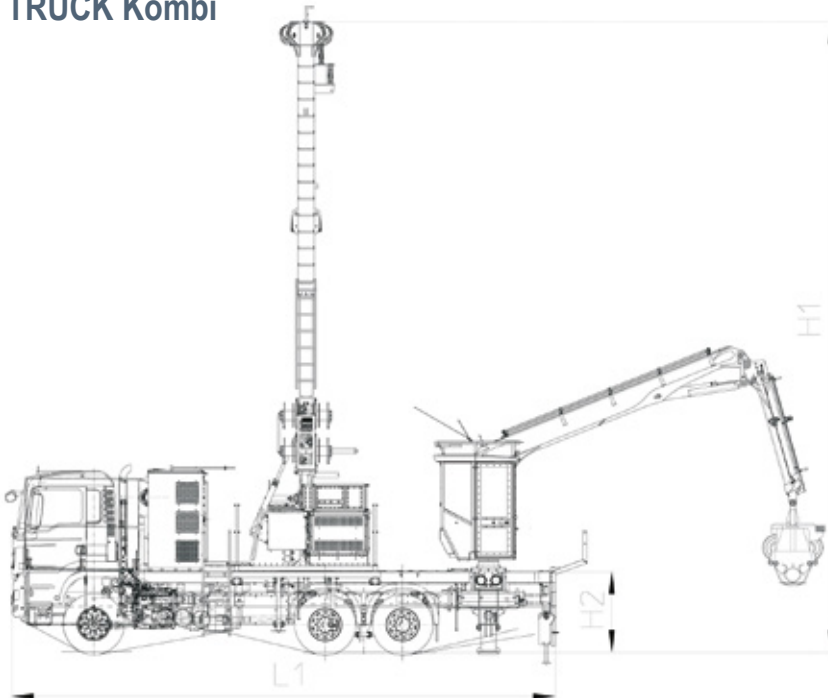
Option

The hydraulic winding drum eases the reeling of the anchor ropes and allows in addition an ordered storage of all ropes on the machine.

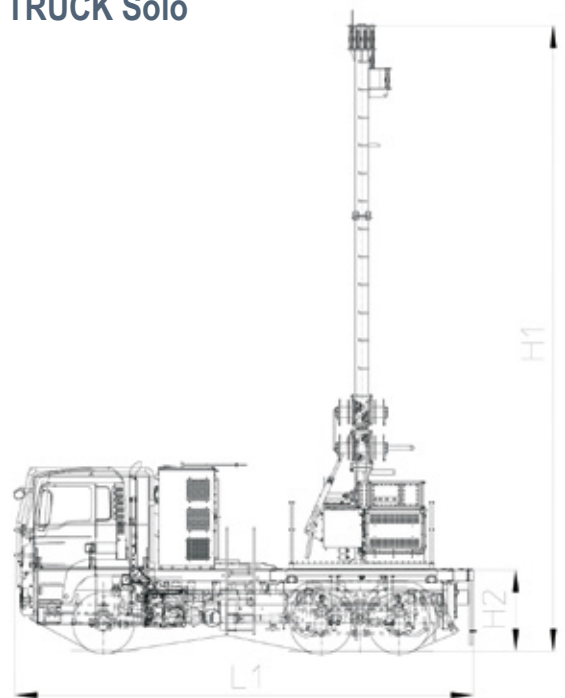




TRUCK Kombi



TRUCK Solo



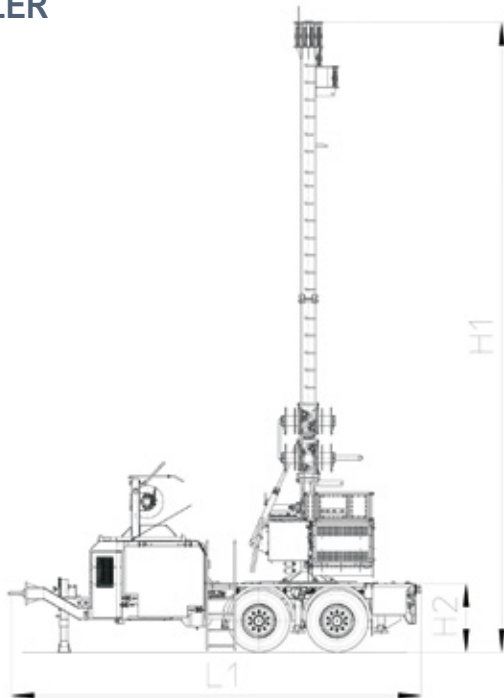
Features

Features	TRUCK			
	SYNCROFALKE 3 to Kombi	SYNCROFALKE 4 to Kombi	SYNCROFALKE 3 to Solo	SYNCROFALKE 4 to Solo
Carriage MM-SHERPA	U3	U4 U4 XL	U3	U4 U4 XL
Telescope mast height H1	11,5 m	12 m	11,5 m	12 m
Folding mast height H1	11,7 m	–	11,7 m	–
Maximum traction	3 to	4 to	3 to	4 to
Maximum speed	9,2 m/s	10 m/s	9,2 m/s	10 m/s
Skyline cable Ø max. length	20 mm 750 m	22 mm 900 m	20 mm 750 m	22 mm 900 m
Cable 1 Ø max. length	11 mm 1800 m	12 mm 1900 m	11 mm 1800 m	12 mm 1900 m
Cable 2 Ø max. length	8 mm 1800 m	10 mm 1900 m	8 mm 1800 m	10 mm 1900 m
Anchor rope Ø max. length	4x18 mm 70 m	4x20 mm 70 m	4x18 mm 70 m	4x20 mm 70 m
4 Hydraulic anchor winds	○	●	○	●
5 Hydraulic anchor winds	–	–	–	–
Remote anchor winch	○	○	○	○
Mounting winch max. rope length	○ 1800 m	● 1800 m	○ 1800 m	● 1800 m
Mounting remote	○	●	○	●
Transport dimensions folding mast [mm]	10000 2550 4000	–	8200 2550 4000	8200 2550 4000
Transport dimensions telescope mast [mm]	11500 2550 4000	11500 2550 4000	9500 2550 4000	10000 2550 4000
Working dimensions L1 H2 B1 [mm]	10000 1450 5000	10000 1450 5000	8200 1450 5000	8200 1450 5000
Chassis	6x4 6x6	8x6 8x8	6x4 6x6	6x4 6x6
Engine output Emission standard EU	324 kW EURO 6	353 kW EURO 6	265 kW EURO 6	265 kW EURO 6
Engine output Emission standard Japan	–	–	265 kW EURO 6	265 kW EURO 6
Engine output Emission standard Chile	324 kW EURO 5	353 kW EURO 5	265 kW EURO 5	265 kW EURO 5

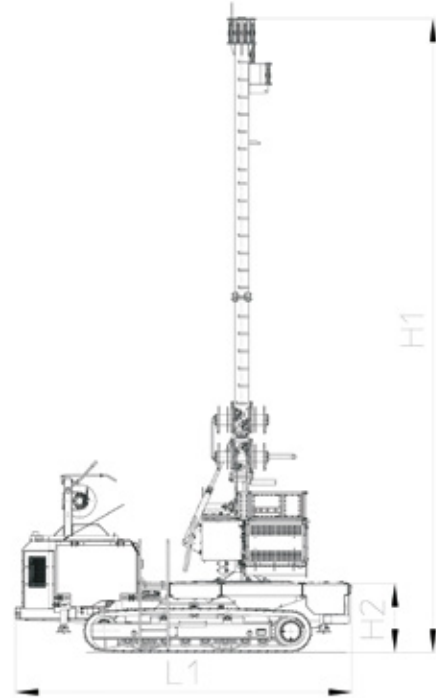
SYNCROFALKE®



TRAILER



TRACK



TRAILER		TRACK	
SYNCROFALKE 3 to A	SYNCROFALKE 4 to A	SYNCROFALKE 3 to R	SYNCROFALKE 4 to R
U3	U4 U4 XL	U3	U4 U4 XL
-	-	-	-
11 m	12,3 m	11 m	12,3 m
3 to	4 to	3 to	4 to
9,2 m/s	10 m/s	9,2 m/s	10 m/s
20 mm 750 m	22 mm 900 m	20 mm 750 m	22 mm 900 m
11 mm 1800 m	12 mm 1900 m	11 mm 1800 m	12 mm 1900 m
8 mm 1800 m	10 mm 1900 m	8 mm 1800 m	10 mm 1900 m
4x18 mm 70 m	4x20 mm 70 m	4x18 mm 70 m	4x20 mm 70 m
○	●	○	●
○	-	○	-
○	○	○	○
○ 1800 m	● 1800 m	○ 1800 m	● 1800 m
○	○	○	○
7150 2500 3700	7150 2500 3700	5900 2450 3700	6100 2450 3700
-	-	-	-
7150 1200 2500	7150 1200 2500	5900 1200 2500	5900 1200 2500
Tandem trailer	Tandem trailer	Track/Crawler	Track/Crawler
151 kW TIER 4 Final	168 kW TIER 4 Final	151 kW TIER 4 Final	168 kW TIER 4 Final
151 kW TIER3	168 kW TIER 3	151 kW TIER 4 Final	168 kW TIER 4 Final
151 kW TIER 3	168 kW TIER 3	151 kW TIER 3	168 kW TIER 3



We reserve the right to make technical changes during the current development. E2016



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