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Product Content Everywhere

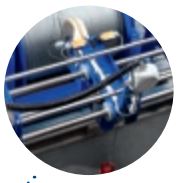
ATEX design optional



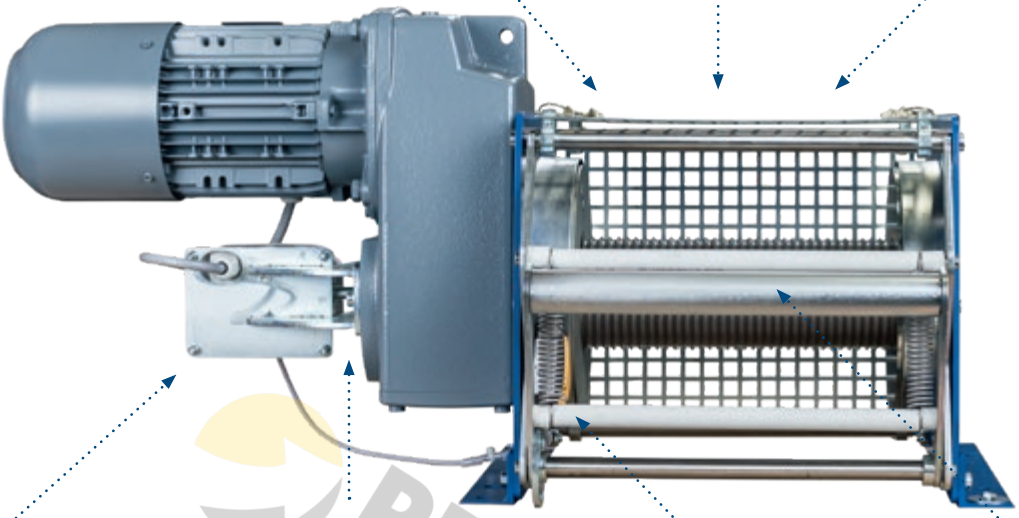
Option
Grooved drum



Option
Drum protection



Option
Spooling device





Option
Spindle limit switch



Option
Disengaging clutch



Option
Slack wire switch



Option
Drum pressure roller

ELECTRIC ROPE WINCH | **PFW**

With a load bearing capacity from 250 to 3,000 kg this electrical cable winch with its modular construction principle is one of the most modern devices for pulling, lifting and moving loads. With its extensive range of configuration and finishing options it can be adapted to suit almost any installation situation.

MADE IN **GERMANY**

The PFW range combines a modern design, innovative technology and superlative components, which are produced exclusively in Germany.
Prior to shipping, each winch is tested dynamically with 125% of the nominal load and leaves our factory with a 24 month guarantee.

Drive

In standard form the spur gear transmission is equipped with a 3-phase braked motor. The standard operating voltage is 3 Ph / 400 V / 50 Hz.
The duty cycle is around 60% thus enabling operation to continue almost without a break in the most difficult of conditions. For unprotected use outdoors the braked motor fulfils protection class IP55.

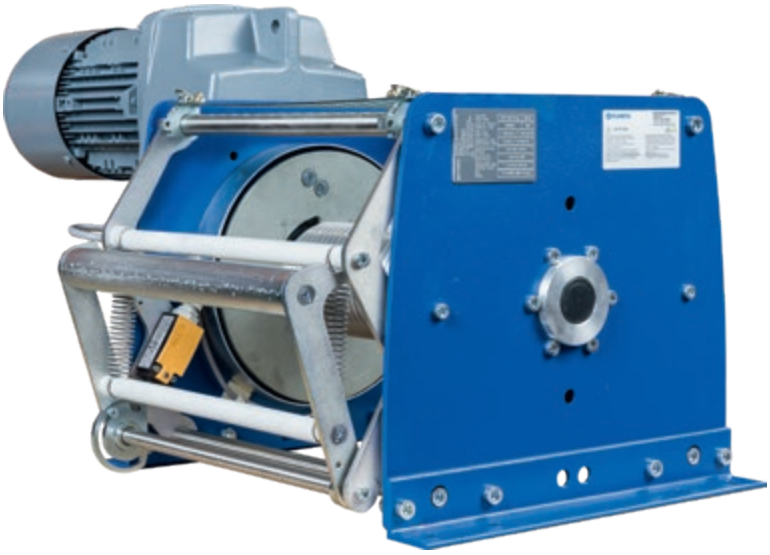
Base frame

Torsion-resistant yet flexible, it adapts to almost any surface. We install side guards as standard, which effectively prevent the cable from jumping off.
It can be extended if the cable winch is to be attached to a concrete foundation.

End position switch-off

The spindle limit switch can be mounted on both sides depending on the size and can be extended by a further 4 contacts, external versions or a test button for checking the emergency limit positions.
The limit switch can also be retrofitted and is customised to the cable path of the winch.

PRO-LIFT SOLUTIONS



Drum guard

The cover prevents unintentional reaching into the rotating rope drum and can prevent injuries. Optionally, the covers can only be removed with tools.

Slack rope switch

The lowering movement of the cable winch stops automatically as soon as the load settles on the ground or a guided load becomes jammed during lowering and stops. This prevents accidents caused by falling loads.

Disengaging clutch

The rope drum can only be manually disengaged from the drive and brake for pulling applications where the load is travelling on a horizontal track and does not need to be held by the winch.
The rope can then be pulled off by hand.

Rope drum

With a smooth drum as standard, we can add a grooved drum, extended versions, double drum diameter or double rope outlet on request. rope outlet. Versions in stainless steel, up to 8 rope outlets or for the use of for the use of synthetic ropes optional.

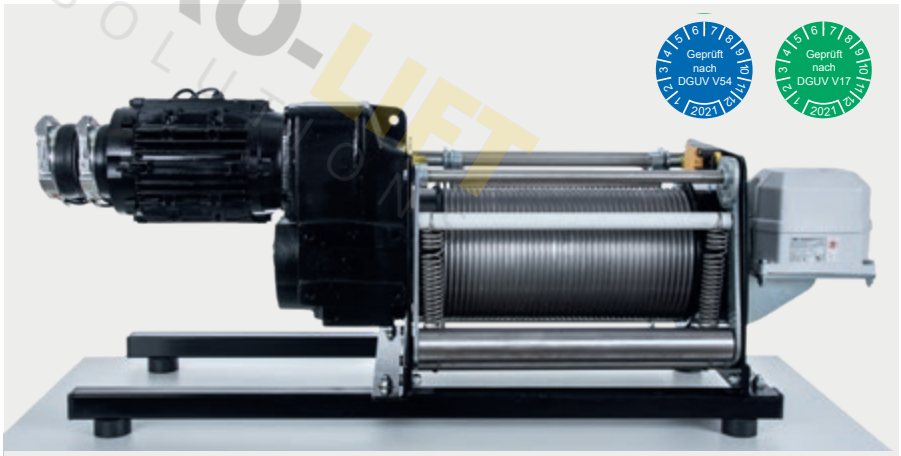
Organised rope winding

It is important to ensure that a fixed deflection is installed at a suitable distance from the centre of the rope drum, over which the rope runs first.
In addition, at least 10 % of the specified nominal load must always be applied to the rope as a minimum load to ensure good winding. A grooved drum helps to improve the winding and also ensures smoother running and a shorter distance to the first deflection.
Optional spooling devices can reduce this distance even further.

If the rope is still unloaded, the rope pressure roller helps to prevent the rope from moving and loosening on the drum by itself. Wire ropes must be cleaned and lubricated regularly.

Further versions

Move your winch in an emergency even without a power supply, either just the lowering movement using the hand brake release or lifting and lowering with our self-braking emergency hand crank. Protect your winch from various environmental conditions, e.g. outdoor installation, contact with sea water or air, potentially explosive environments, increased safety if the load is above people or even moving.



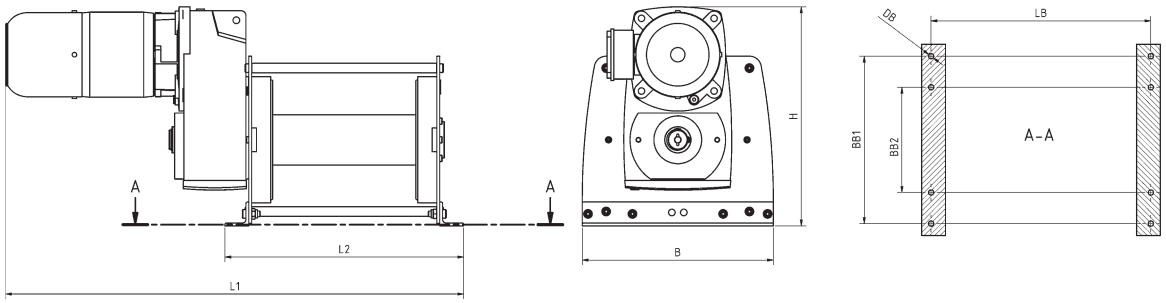
DGUV17-Electric rope winch for event technology with two brakes

Basic design

TYPE	PFW-1D	250	500	750	1000	1500	2000	3000
Lifting capacity in 1st rope layer	kg	250	500	750	1,000	1,500	2,000	3,000
Lifting capacity in 5th rope layer	kg	160	320	480	640	950	1,270	1,920
Rope diameter	mm	5	6	7	8	10	12	14
Rope length in 1st rope layer	m	11	11	11	10	10	9	9
Rope length in 5th rope layer	m	75	75	75	75	75	75	75
Expansion every 100 mm extended drum 1st/5th layer	approx. m	4/25	4/25	4/25	4/25	4/25	4/25	4/25
Rope speed 1st rope layer	approx. m/min	8	8	8	8	8	8	8
Rope speed 5th rope layer	approx. m/min	12	12	12	12	12	12	12
Motor power	kW	0.37	0.75	1.1	1.5	2.1	2.6	4
PFW-1D with standard speed	**Order No.**	**H62101**	**H62111**	**H62121**	**H62131**	**H62141**	**H62151**	**H62161**
Rope speed 1st rope layer	approx. m/min	4	4	4	4	4	4	4
Rope speed 5th rope layer	approx. m/min	6	6	6	6	6	6	6
Motor power	kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
PFW-1D with half speed	**Order No.**	**H62104**	**H62114**	**H62124**	**H62134**	**H62144**	**H62154**	**H62164**
Rope speed 1st rope layer	approx. m/min	12	12	12	12	12	12	12
Rope speed 5th rope layer	approx. m/min	19	19	19	19	19	19	19
Motor power	kW	0.55	1.1	1.5	2.1	3.2	4	5.5
PFW-1D with fast speed	**Order No.**	**H62103**	**H62113**	**H62123**	**H62133**	**H62143**	**H62153**	**H62163**
OPTIONS								
Grooved drum	**Order No.**	**H62800**	**H62801**	**H62802**	**H62803**	**H62804**	**H62805**	**H62806**
Longer drum each 100 mm	**Order No.**	**H62810**	**H62810**	**H62811**	**H62811**	**H62812**	**H62812**	**H62813**
Second rope outflow	**Order No.**	**H62820**	**H62821**	**H62822**	**H62823**	**H62824**	**H62825**	**H62826**
Manual free-wheeling coupling	**Order No.**	–	**H62831**	**H62832**	**H62833**	**H62834**	**H62835**	**H62836**
Protective drum cover	**Order No.**	**H62840**	**H62841**	**H62842**	**H62843**	**H62844**	**H62845**	**H62846**
Drum pressure roller	**Order No.**	**H62850**	**H62851**	**H62852**	**H62853**	**H62854**	**H62855**	**H62856**
Emergency limit switch	**Order No.**	**H62861**	**H62861**	**H62861**	**H62862**	**H62862**	**H62863**	**H62863**
Operational limit switch	**Order No.**	**H62865**	**H62865**	**H62865**	**H62865**	**H62865**	**H62865**	**H62865**
Emergency limit switch with incremental sensor	**Order No.**	**H62866**	**H62866**	**H62866**	**H62866**	**H62866**	**H62866**	**H62866**
Slack wire switch	**Order No.**	**H62870**	**H62871**	**H62872**	**H62873**	**H62874**	**H62875**	**H62876**
Manual brake release	**Order No.**	**H62881**	**H62881**	**H62881**	**H62882**	**H62882**	**H62882**	**H62883**
Manual brake release with crank	**Order No.**	**H62884**	**H62884**	**H62884**	**H62885**	**H62885**	**H62885**	**H62886**
Protective paint per **ISO12944** C4 (high)	**Order No.**	**H62891**	**H62891**	**H62892**	**H62892**	**H62893**	**H62893**	**H62894**
Protective paint per **ISO12944** C5 (very high / marine)	**Order No.**	**H62895**	**H62895**	**H62896**	**H62896**	**H62897**	**H62897**	**H62898**

Dimensions and weights of the standard design (special equipment may vary)

TYPE	PFW-1D	250	500	750	1000	1500	2000	3000



L1	mm	900	910	910	1,020	1,060	1,200	1,300
L2	mm	460	460	460	500	500	570	570
B	mm	270	320	360	400	460	550	620
H	mm	325	360	420	460	550	630	690
LTR	mm	300	300	300	300	300	300	300
DTR	mm	65	80	92	105	130	155	185
DFL	mm	155	190	220	250	310	370	430
LB	mm	430	430	430	460	460	520	520
BB1	mm	220	250	310	350	410	500	560
BB2	mm	–	–	–	220	280	320	380
DB	mm	13.5	13.5	13.5	13.5	13.5	17.5	17.5
Weight without accessories	approx. kg	35	60	75	110	155	240	380

PRO-LIFT SOLUTIONS

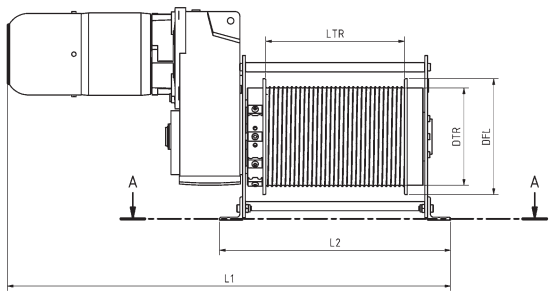
Double diameter drum, stage & studios

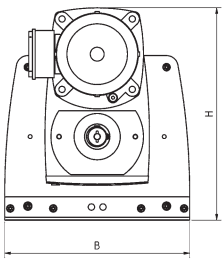
TYPE	PFW-2D	250	500	750	1000	1500	2000	3000
Lifting capacity in 1st rope layer	kg	125	250	375	500	750	1,000	1,500
Rope diameter	mm	5	6	7	8	10	12	14
Rope length in 1st rope layer	m	20	20	20	20	19	18	17
Expansion every 100 mm extended drum 1st layer	approx. m	7	7	7	7	7	7	7
Rope speed 1st rope layer	approx. m/min	15	15	15	15	15	15	15
Motor power	kW	0.37	0.75	1.1	1.5	2.1	2.6	4
PFW-2D with standard speed	**Order No.**	**H62201**	**H62211**	**H62221**	**H62231**	**H62241**	**H62251**	**H62261**
Rope speed 1st rope layer	approx. m/min	7	7	8	9	8	7	7
Motor power	kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
PFW-2D with half speed	**Order No.**	**H62204**	**H62214**	**H62224**	**H62234**	**H62244**	**H62254**	**H62264**
Rope speed 1st rope layer	approx. m/min	22	22	22	22	22	22	22
Motor power	kW	0.55	1.1	1.5	2.1	3.2	4	5.5
PFW-2D with fast speed	**Order No.**	**H62203**	**H62213**	**H62223**	**H62233**	**H62243**	**H62253**	**H62263**

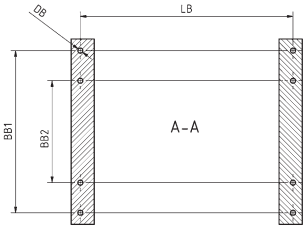
TYPE	PFW stages and studios	250	500	750	1000	1500	2000	3000
Lifting capacity in 1st rope layer	kg	100	200	300	400	630	900	1,200
Rope diameter	mm	5	6	7	8	10	12	14
Rope length in 1st rope layer	m	19	19	19	19	18	17	16
Expansion every 100 mm extended drum 1st layer	approx. m	7	7	7	7	7	7	7
Rope speed 1st rope layer	approx. m/min	15	15	15	15	15	15	15
Motor power	kW	1.1	1.1	1.1	1.1	2.2	2.2	3.0
	Order No.	**H62301**	**H62311**	**H62321**	**H62331**	**H62341**	**H62351**	**H62361**
OPTIONS								
Grooved drum	**Order No.**	incl.	incl.	incl.	incl.	incl.	incl.	incl.
Longer drum	**Order No.**	**H62814**	**H62814**	**H62815**	**H62815**	**H62816**	**H62816**	**H62817**
Second rope outflow	**Order No.**	**H62820**	**H62821**	**H62822**	**H62823**	**H62824**	**H62825**	**H62826**
Manual free-wheeling coupling (not for stages and studios)	**Order No.**	–	**H62831**	**H62832**	**H62833**	**H62834**	**H62835**	**H62836**
Protective drum cover	**Order No.**	**H62840**	**H62841**	**H62842**	**H62843**	**H62844**	**H62845**	**H62846**
Drum pressure roller	**Order No.**	**H62850**	**H62851**	**H62852**	**H62853**	**H62854**	**H62855**	**H62856**
Emergency limit switch	**Order No.**	**H62861**	**H62861**	**H62861**	**H62862**	**H62862**	**H62863**	**H62863**
Operational limit switch	**Order No.**	**H62865**	**H62865**	**H62865**	**H62865**	**H62865**	**H62865**	**H62865**
Emergency limit switch with incremental sensor	**Order No.**	**H62866**	**H62866**	**H62866**	**H62866**	**H62866**	**H62866**	**H62866**
Slack wire switch	**Order No.**	**H62870**	**H62871**	**H62872**	**H62873**	**H62874**	**H62875**	**H62876**
Manual brake release	**Order No.**	**H62881**	**H62881**	**H62881**	**H62882**	**H62882**	**H62882**	**H62883**
Manual brake release with crank	**Order No.**	**H62884**	**H62884**	**H62884**	**H62885**	**H62885**	**H62885**	**H62886**
Protective paint per **ISO12944** C4 (high)	**Order No.**	**H62891**	**H62891**	**H62892**	**H62892**	**H62893**	**H62893**	**H62894**
Protective paint per **ISO12944** C5 (high)	**Order No.**	**H62895**	**H62895**	**H62896**	**H62896**	**H62897**	**H62897**	**H62898**

Dimensions and weights

TYPE	PFW-2D	250	500	750	1000	1500	2000	3000







L1	mm	880	920	920	1,040	1,080	1,200	1,200
L2	mm	460	460	460	500	500	570	570
B	mm	270	320	360	400	460	550	620
H	mm	315	360	420	460	550	630	660
LTR	mm	300	300	300	300	300	300	300
DTR	mm	130	160	185	210	260	310	350
DFL	mm	155	190	220	250	310	370	430
LB	mm	430	430	430	460	460	520	520
BB1	mm	220	250	310	350	410	500	560
BB2	mm	–	–	200	220	280	320	380
DB	mm	13.5	13.5	13.5	13.5	13.5	17.5	17.5
Weight without accessories	approx. kg	40	65	85	120	170	280	425