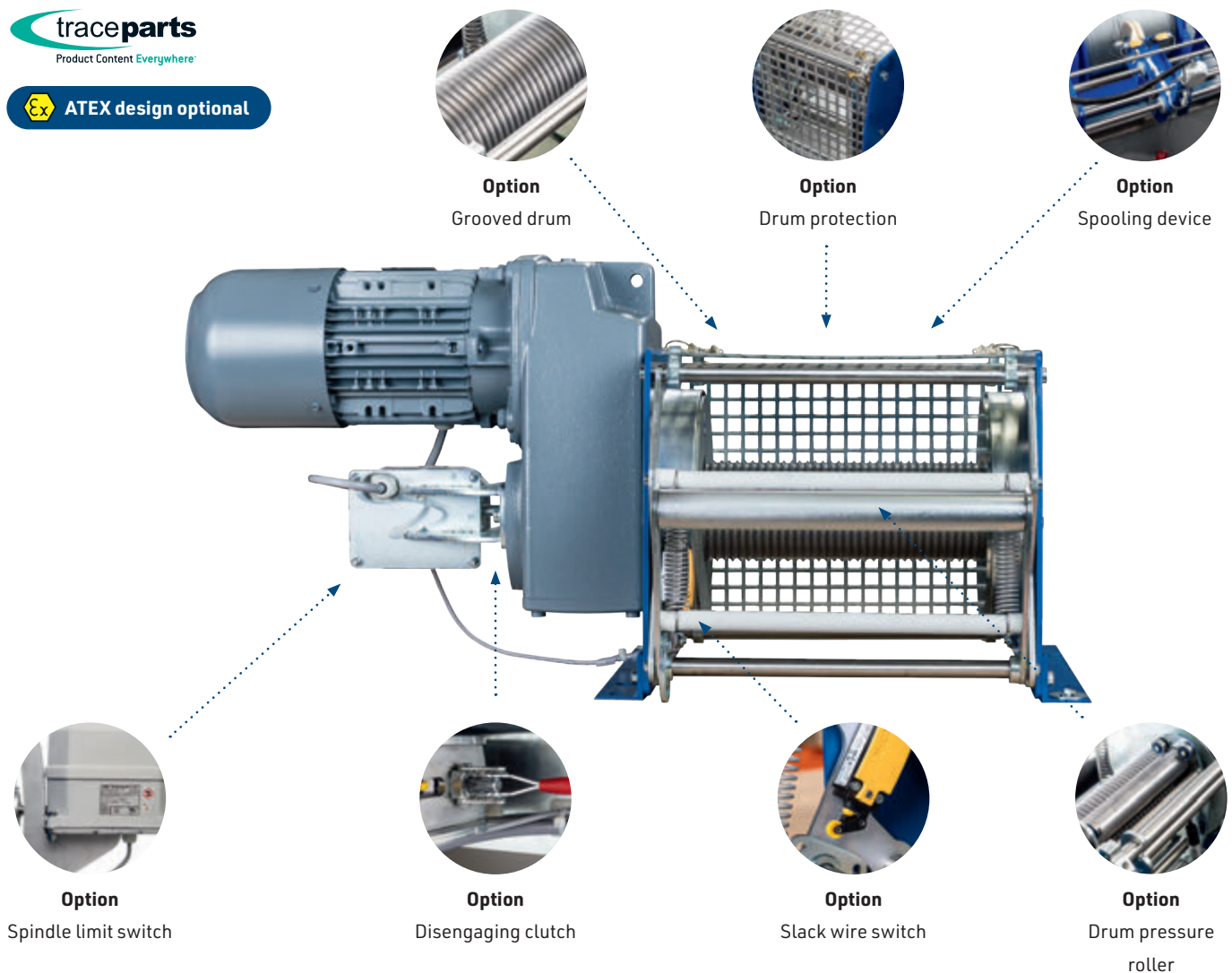




ELECTRIC ROPE WINCH | PFW

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.



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

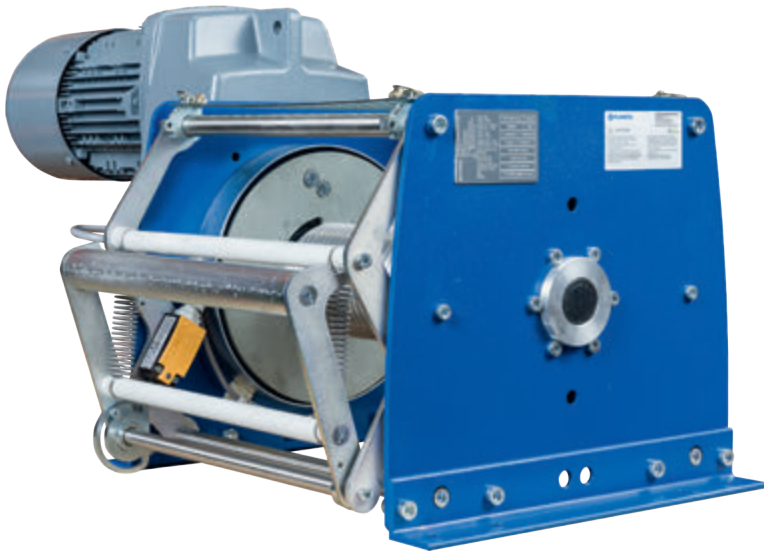
In standard form the spur gear transmission is equipped with a 3-phase braked motor. The standard operating voltage is 3 Ph / 400 V / 50 Hz. The duty cycle is around 60% thus enabling operation to continue almost without a break in the most difficult of conditions. For unprotected use outdoors the braked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



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 synthetic ropes optional.

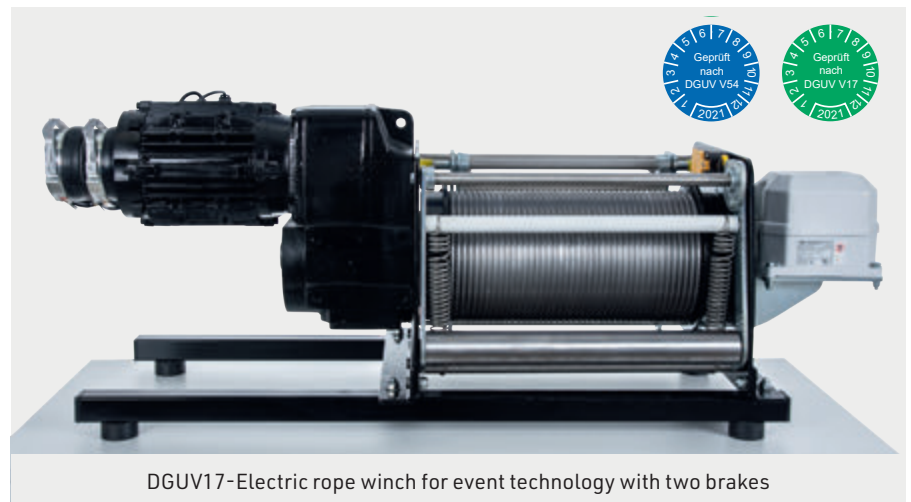
Organised rope winding

It is important to ensure that a fixed deflection is installed at a suitable distance from the centre of the rope

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.



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.

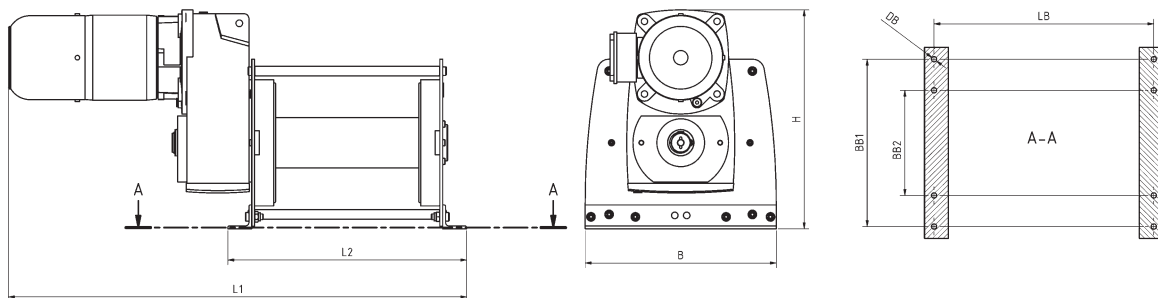


Basic design

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
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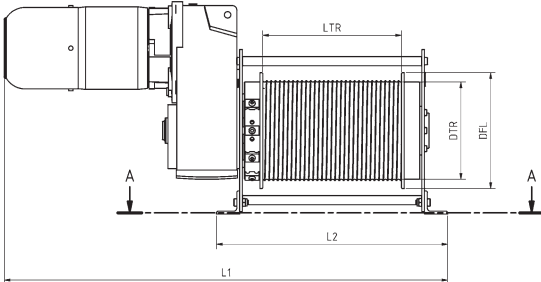
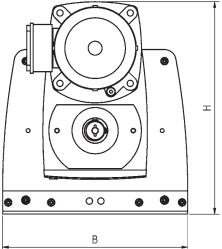
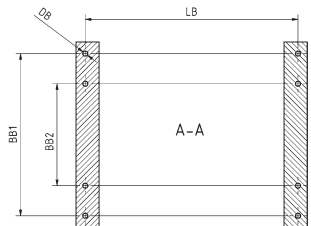
L1	mm	900	910	910	1,020	1,060	1,200	1,300
L2	mm	460	460	460	500	500	570	570
B	mm	270	320	360	400	460	550	620
H	mm	325	360	420	460	550	630	690
LTR	mm	300	300	300	300	300	300	300
DTR	mm	65	80	92	105	130	155	185
DFL	mm	155	190	220	250	310	370	430
LB	mm	430	430	430	460	460	520	520
BB1	mm	220	250	310	350	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

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
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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