

Electric Wire Rope Winch RPE

Electric wire rope winch model RPE

Features

- Compact dimensions due to internal brake motor, Standard: Euro-voltage 230/400 V, 50 Hz., 3-phase, protected to IP 54, Insulation class F.
- Adjustable slip clutch to protect the winch from overloading (1000 kg capacity only).
- Spur gear transmission with helical first gear ensures smooth motion. Lubricated by grease and can, therefore, be used in any position.
- Spring pressure disc brake incorporated in the motor holds the load secure even in the event of a power failure.
- Plain rope drum standard.
- The rope is secured to the drum in a recess so that the rope can be wound onto the drum in several layers without damage.
- Direct control as standard.



Rope attachment



Spring pressure
disc brake



Gearbox with slip
clutch
(1000 kg capacity)



Brake motor

**Special design according to VBG 70
for theater stage applications available.**

Technical Data

Model	Pulling force daN	Lifting speed m/min*	Rope ø mm	Motor performance kW	ED at 120 c/h %	Useable rope length				Weight without rope kg
						1 st layer	2 nd layer	3 rd layer	4 th layer	
RPE 2-13	250	13,0	4	0,55	40	11,2	24,4	38,8	54,5	31,8
RPE 5-6	500	6,5	6	0,55	40	7,0	16,4	27,0	38,8	32,8
RPE 5-12	500	12,0	6	1,10	40	11,0	24,9	39,7	55,4	41,0
RPE 9-6	990	6,0	8	1,10	40	10,2	23,0	37,4	–	76,0
RPE 10-6**	1000	6,0	8	1,10	40	10,2	23,0	37,4	–	76,9

*In the upper layer

**with slip clutch

Optional

- Different drum designs, e.g. extended to accommodate longer rope, machined grooves for exact reeling, with separation web and 2nd rope outlet for working with two ropes, traversing operation.
- Gearbox end switches to limit rope motion in both directions.
- Single-phase A.C. motor 230 V, 50 Hz, for mobile application of the winch.
- Control by means of pendant control including control switch with emergency stop and 2 m long control cable.
- Contactor control with 42 V control voltage when using end or slack rope switches.
- Slack rope switch to automatically stop the winch when rope tension eases e.g. when the load touches down.
- Frequency converter for stepless speed control.



Different drum designs



Single-phase A.C. motor



Geared limit switches

Plan standard drum (larger useable rope length)

Pulling force in all layers daN	Lifting speed in the upper layer m/min.	Drum size	Upper layer m
250	13,0	2	80
500	6,5	2	58
990/1000	6,0	2	56
250	13,0	3	200
500	6,5	3	140
500	12,0	3	140
990/1000	6,0	3	100

Grooved drum (larger drum diameter) only for 1st layer use

			1 st layer/m
250	13,0	1	8,6
500	6,5	1	5,8
990/1000	6,0	1	6,8
250	13,0	2	15
500	6,5	2	10,7
500	12,0	2	10,7
990/1000	6,0	2	12,7
250	13,0	3	44
500	6,5	3	31
500	12,0	3	31
990/1000	6,0	3	29

Pneumatic wire rope winch RPA



Pneumatic wire rope winch model RPA

The conception is in accordance with the design of the model RPE.

With 100 % duty rating and an unlimited number of starts the model RPA is suitable for heavy duty applications.

It is insusceptible to contamination, humidity and aggressive mediums from the outside.

Features

- Robust rotating piston motor with high starting torque, designed for operating pressures 4 to 6 bar.
- Spring pressure disc brake incorporated in the motor holds the load secure even in the event of an air failure.
- Sensitive control by means of direct acting valves in the control switch.

Optional

- Different drum designs, e.g. extended to accommodate longer rope, machined grooves for exact reeling, with separation web and 2nd rope outlet for working with two ropes, traversing operation.

Technical Data

Model	Pulling force in the upper layer daN	Lifting speed with rated load* m/min	Lifting speed without load* m/min	Lowering speed with rated load* m/min	Useable rope length				Weight without rope kg
					1 st layer	2 nd layer	3 rd layer	4 th layer	
RPA 2-13	250	12,5	20,0	22,0	11,2	24,4	38,8	54,5	36,7
RPA 5-6	500	6,2	10,0	11,0	7,0	16,4	27,0	38,8	36,7

*Value for 6 bar

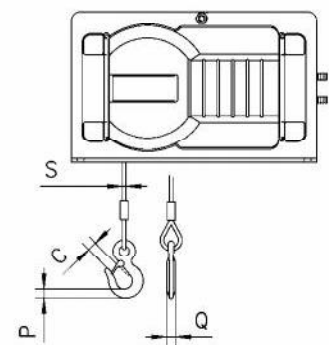
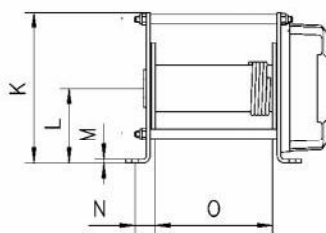
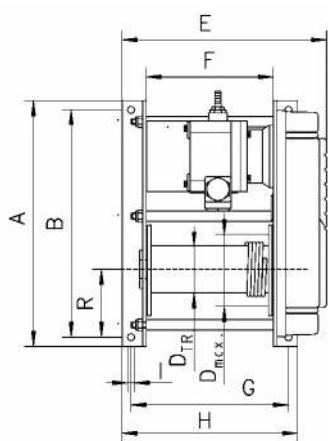
Air consumption 0,75 m³/Min

Motor performance 0,55 kW

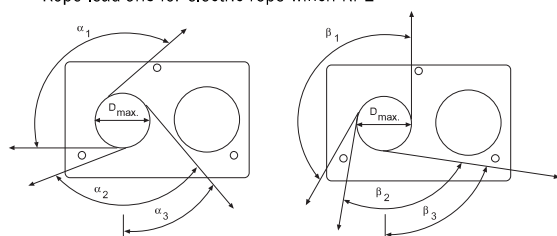
To ensure faultless operation the compressed air supply must be filtered and oiled!

Dimension for RPE/RPA in mm

Dimension	RPE 2-13	RPE 5-6	RPE 5-12	RPE 9-6	RPE 10-6	RPA 2-13	RPA 5-6
A	405	405	405	525	525	405	405
B	375	375	375	485	485	375	375
C	18	18	18	25	25	18	18
D _{TR}	76	76	76	108	108	76	76
D _{max}	104	118	118	148	148	104	118
D _A	150	150	150	180	180	150	150
E	336	336	426	465	465	336	336
F	210	210	300	270	270	210	210
G	260	260	350	345	345	260	260
H	290	290	380	380	380	290	290
I	11	11	11	13	13	11	11
K	250	250	250	340	340	250	250
L	125	125	125	170	170	125	125
M	6	6	6	10	10	6	6
N	33,0	33,0	33,0	47,5	47,5	33,0	33,0
O	194	194	284	250	250	194	194
P	19	19	19	24	24	19	19
Q	13	13	13	19	19	13	13
R	125	125	125	170	170	125	125
S	4	6	6	8	8	4	6
α_1	130°	130°	130°	145°	145°	130°	130°
α_2	110°	110°	110°	125°	125°	90°	90°
α_3	40°	40°	40°	50°	50°	20°	20°
β_1	150°	150°	150°	155°	155°	150°	150°
β_2	90°	90°	90°	100°	100°	70°	70°
β_3	80°	80°	80°	83°	83°	60°	60°



Rope lead-offs for electric rope winch RPE



Rope lead-offs for pneumatic rope winch RPA

