Yale®

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 BGV C1 for theater stage applications available.

Technical Data

Model	Pulling force in the upper layer daN	Lifting speed m/min	Rope Ø mm	Motor performance kW	ED at 120 c/h %	Useable rope length in the upper layer in m	Weight without rope kg
RPE 2-13	250	13,0	4	0,55	40	54,5	31,8
RPE 5-6	500	6,5	6	0,55	40	38,8	32,8
RPE 5-12	500	12,0	6	1,10	40	55,4	41,0
RPE 9-6	990	6,0	8	1,10	40	37,4	76,0
RPE 10-6**	1000	6,0	8	1,10	40	37,4	76,9

**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

Plain standard drum (longer useable rope length)

Pulling force in all layers daN	Lifting speed upper layer m/min.	Drum size	Max rope length 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 single layer operation

			1st 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