

Yale *RPE*

Electric winch



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Winches series RPE are designed for performance, efficiency and safety and offer many advantages and options. RPE's compact, practical cube design and universal rope lead-offs allow individual applications in almost any position for lifting and pulling loads.

The winches are designed to DIN 15020, classification 1 Bm/M3 and the EC machinery directives.

Every winch is factory tested with overload. The units are supplied with a test certificate showing the unit's serial-no. and an operating instructions manual which contains a manufacturer's declaration.

CAPACITIES 250-2.000 KG

BENEFITS & FEATURES

- Compact dimensions due to internal brake motor.
- Standard operating voltages of 400V/230V, 3-ph, 50 Hz or 230V, 1-ph, 50 Hz
- Protected to IP 54
- Insulation class F
- Adjustable slip clutch to protect the winch from overloading standard for RPE 10-6 and RPE 20-6.
- 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 or 42V low voltage control (incl. push-button with emergency-stop and 2 m control cable).



Rope attachment



Spring pressure disc brake



Brake motor

INFO

When selecting the length of the rope please bear in mind that a minimum of 2-3 windings have to remain on the drum.

The wire rope, if ordered, comes dismounted, and is to be mounted onto the drum by the user.

Please note, the single-phase winches generate a higher noise level than those with three-phase motors.

OPTIONAL FEATURES

- Different drum designs (L, XL) extended to accommodate longer rope.
- Machined grooved drums for better rope reeling.
- Drums with separation web and extra rope outlets for working with two or more ropes.
- Geared limit switches to limit rope motion in both directions (in combination with 42V low voltage control).
- Slack rope switch to automatically stop the winch when rope tension eases e.g. when the load touches down (in combination with low voltage control).
- Frequency converter for stepless speed control.

- Adjustable slip clutch to protect the winch from overloading for capacities 250/500 kg.
- Special design according for theater stage applications available.
- Radio remote control in combination with the low voltage control.
- Other operating voltages.
- Motors protected to IP 55 fitted with brake with stainless steel parts.
- Motor brakes with manual release.
- Special coatings or zinc plated finish.
- Wire rope guide for RPE 2-13, 5-6, 5-12 (only with single rope layer).



TECHNICAL DATA RPE

Model	Art.-No.			Capacity kg	Lifting speed m/min		Rope diameter mm	Motor kW	Useable rope length m		Weight without rope kg		
	without control	direct control	low voltage control		1 st layer	top layer			1 st layer	top layer	Stan- dard	L	XL
RPE 2-13	N06500004	N06500112	N06500140	250	10.2	13.2	4	0.55	11.1	54	33	40	48
RPE 5-6	N06500005	N06500118	N06500146	500	4.6	6.6	6	0.55	7.4	38	34	41	49
RPE 5-12 L	N06500007	N06500124	N06500152	500	8.7	12.6	6	1.1	11.3	57	-	47	54
RPE 9-6	N06500013	N06500128	N06500156	990	5.1	6.5	8	1.1	10.1	37	78	88	104
RPE 10-6 ¹	N06500008	N06500134	N06500162	1000	5.1	6.5	8	1.1	10.1	37	79	89	105
RPE 20-6 ¹	N06500269	N06500275	N06500274	2000	5.2	7.6	12	2.2	13.2	49	185	213	235

¹ With slip clutch Motor rating ED 40%

PLAIN DRUM (longer useable rope length)

Model	Capacity top layer kg	Drum size	Useable rope length max. m			
			1 st layer	2 nd layer	3 rd layer	4 th layer
RPE 2-13 L	250	2	16	36	57	80
RPE 5-6 L	500	2	11	25	40	58
RPE 5-12 L	500	2	11	25	40	57
RPE 9-6/10-6 L	990/1000	2	15	35	56	-
RPE 20-6 L	2000	2	20	46	74	-
RPE 2-13 XL	250	3	44	94	148	200
RPE 5-6 XL	500	3	30	65	105	140
RPE 5-12 XL	500	3	65	105	149	-
RPE 9-6/10-6 XL	990/1000	3	30	67	107	-
RPE 20-6 XL	2000	3	34	74	120	-

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

GROOVED DRUM (recommended for single layer operation)

Model	Capacity top layer kg	Drum size	Useable rope length m	
			1st layer	max.
RPE 2-13 R	250	1	8.8	43
RPE 5-6 R	500	1	6.2	33
RPE 9-6/10-6 R	990/1000	1	8.2	30
RPE 20-6 R	2000	1	12.0	44
RPE 2-13 LR	250	2	13.3	64
RPE 5-6 LR	500	2	9.5	49
RPE 5-12 LR	500	2	9.5	49
RPE 9-6/10-6 LR	990/1000	2	12.9	47
RPE 20-6 LR	2000	2	16.8	61
RPE 2-13 XLR	250	3	35.3	165
RPE 5-6 XLR	500	3	25.7	128
RPE 5-12 XLR	500	3	25.7	128
RPE 9-6/10-6 XLR	990/1000	3	25.2	89
RPE 20-6 XLR	2000	3	27.9	99



INFO

Also available as zinc-plated version on request!



The image shows the winch RPE 20-6 with the grooved drum (optional) and with the pendant for direct control.



Single-phase A.C. motor



Geared limit switches



Gearbox with slip clutch



Different drum designs