

Electrical wire rope winches

Electrical wire rope winch BETA EL

The robust and elegant electric wire rope winches BETA EL are used for lifting, lowering and pulling all types of loads in all applications. The proven technology and the high quality standard of the electric wire rope winch BETA EL guarantee trouble-free, reliable and durable operation. The construction kit system permits high flexibility:

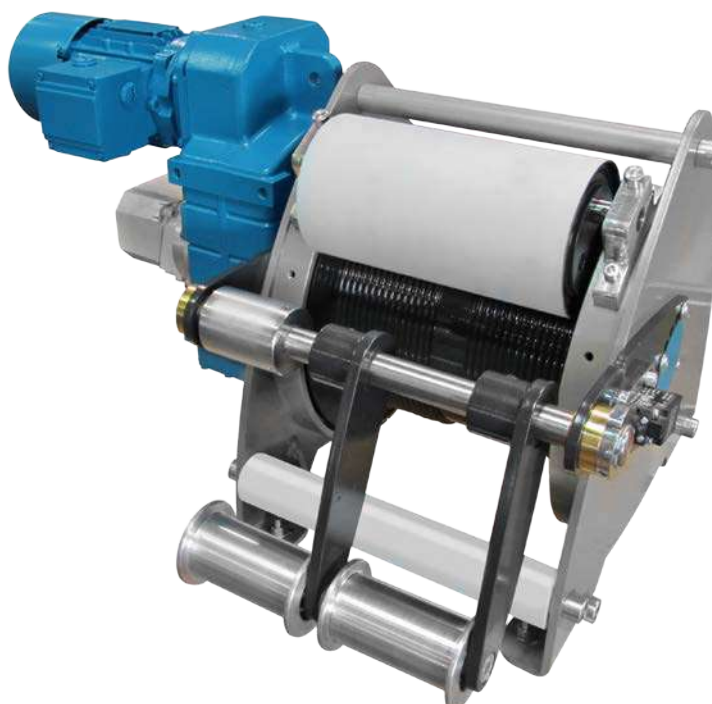
the electric wire rope winches BETA EL with their many options can be combined very well into an individual solution. The use of high-quality components offers safety and long service lives.

Equipment

- Maintenance-free worm gear pairs or low-maintenance spur gear with milled and ground gears – running in oil bath
- Very quiet running by diagonal interlock
- Electrically released spring-applied disk brake
- Duty ratio S3 – 40 %
- Contactor control 42 V
- Range of temperature: -20 °C – +40 °C
- Powerful three-phase motor for multi-range voltage
- 380 – 420 V / 50 Hz or 440 – 460 V / 60 Hz
- Motor protection type IP 55
- Grooved wire rope drum
- Large wire rope capacity
- 2 rope fasteners for variable rope direction
- Modular construction system with many versions
- Electronic overload protection as of 1000 kg lifting load
- According to the accident prevention provisions BGV D8

Options

- External operation via control pendant / radio
- Gear limit switch, adjustable
- Slack rope switch
- Rope pressure roller
- Special wire rope drums for multi-rope operation
- Drum extensions for higher stroke travel
- Special preservation
- Other operating voltages
- Other motor protection types
- Absolute and incremental encoders
- Control with frequency converter for continuously adjustable variable speeds



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Technical data															
Size	Capacity 1 st layer	Rope speed 1 st layer	FEMr	BGV	Power	Rec. rope strength	Rec. rope Ø*	Rope capacity		Weight	Dimensions in mm				
	kg	m/min			kW		mm	1 st layer	top layer	kg	A	B	C	ØD	L2
EL1	320	5.9	2m	D8	0.37	1960	6	13.6	48.5	62	698	375	325	175	264
EL1	320	14.7	2m	D8	0.75	1960	6	13.6	48.5	67	767	375	325	175	264
EL1	320	27.4	2m	D8	1.5	1960	6	13.6	48.5	72	839	375	325	175	264
EL1	500	9.1	2m	D8	0.75	1960	6	13.6	48.5	67	767	375	325	175	264
EL1	500	16.6	2m	D8	1.5	1960	6	13.6	48.5	72	879	375	325	175	264
EL1	500	3.7	1Am	D8	0.37	1960	6	8.4	58.5	62	698	375	325	108	264
EL1	630	7.2	1Am	D8	0.75	1960	6	10.8	54.8	67	767	375	325	138	264
EL1	630	13.1	1Am	D8	1.5	1960	6	10.8	54.8	72	879	375	325	138	264
EL1	630	2.9	1Bm	D8	0.37	1960	6	6.7	48.9	62	698	375	325	86	264
EL2	800	5.5	2m	D8	0.75	1960	8	17.1	61.4	87	865	475	444	242	338
EL2	800	8.6	2m	D8	1.1	1960	8	17.1	61.4	92	937	475	444	242	338
EL2	800	20.6	2m	D8	3	1960	8	17.1	61.4	106	1042	475	444	242	338
EL2	980	4.0	1Am	D8	0.75	1960	9	11	77.4	87	865	475	444	175	338
EL2	980	6.3	1Am	D8	1.1	1960	9	11	77.4	92	937	475	444	175	338
EL2	980	14.9	1Am	D8	3	1960	9	11	77.4	106	1042	475	444	175	338
EL2	1250	3.2	1Bm	D8	0.75	1960	9	8.7	64.1	87	865	475	444	138	338
EL2	1250	5.0	1Bm	D8	1.1	1960	9	8.7	64.1	92	937	475	444	138	338
EL2	1250	11.8	1Bm	D8	3	1960	9	8.7	64.1	106	1042	475	444	138	338
EL3	1250	5.4	2m	D8	1.1	1770	12	16.3	61.3	142	1035	596	547	295	406
EL3	1250	11.2	2m	D8	2.2	1770	12	16.3	61.3	152	1136	596	547	295	406
EL3	1250	14.3	2m	D8	3	1770	12	16.3	61.3	156	1136	596	547	295	406
EL3	1600	4.0	1Am	D8	1.1	1960	12	12.1	87.7	142	1035	596	547	218	406
EL3	1600	8.3	1Am	D8	2.2	1960	12	12.1	87.7	152	1136	596	547	218	406
EL3	1600	10.6	1Am	D8	3	1960	12	12.1	87.7	156	1136	596	547	218	406
EL3	2000	3.2	1Bm	D8	1.1	1960	12	9.4	73.8	142	1035	596	547	175	406
EL3	2000	6.7	1Bm	D8	2.2	1960	12	9.4	73.8	152	1136	596	547	175	406
EL3	2000	8.6	1Bm	D8	3	1960	12	9.4	73.8	156	1136	596	547	175	406
EL3.5	2500	4.7	2m	D8	2.2	1960	14	13.8	53.9	193	1154	672	547	295	406
EL3.5	2500	9.2	2m	D8	4	1960	14	13.8	53.9	205	1119	672	547	295	406
EL3.5	3200	3.9	1Am	D8	2.2	2160	14	11.4	64.5	193	1154	672	547	242	406
EL3.5	3200	7.5	1Am	D8	4	2160	14	11.4	64.5	205	1119	672	547	242	406
EL4	3200	7.2	2m	D8	4	1770	18	15.6	37.8	370	1257	795	687	364	480
EL4	4000	5.8	1Am	D8	4	1960	18	12.7	73.9	370	1257	795	687	295	480
EL4	5000	4.8	1Bm	D8	4	1960	18	10.4	84.3	370	1257	795	687	242	480
EL5	5000	5.6	2m	D8	5.5	1960	20	20.3	48.7	878	1513	1033	844	451	568
EL5	6300	4.6	1Am	D8	5.5	2160	20	16.4	93.4	878	1513	1033	844	364	568
EL5	7500	3.7	1Bm	D8	5.5	2160	20	13.4	104.8	878	1513	1033	844	295	568

*recommended rope: DIN EN 12385-2 19x7 WC -B-sZ

Technical drawing see page 9.