

Electrical wire rope winches

Electrical wire rope winch

BETA EL DGUV V17/18 (BGV C1)/BGV D8 PLUS

Lifts loads over persons perfectly safely: the BETA EL with DGUV V17/18 approval lifts and positions equipment and decorations precisely in trade, industry and public use. The BETA DGUV V17/18 is also used in theaters together with

the tried and tested DELTA theater winch. The electric wire rope winch BETA EL DGUV V17/18 is also offered in the BGV D8 PLUS design for positioning of structural elements.

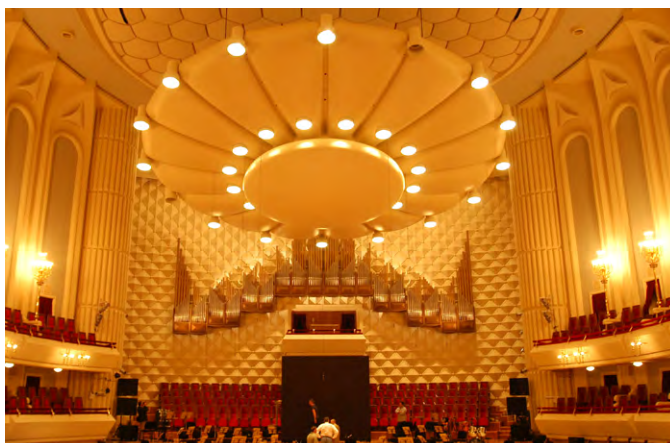
Equipment and processing

- Tensile loads from 160 – 1200 kg
- Additional equipment as in the rope winch BETA EL



Stadthalle Gersthofen near Augsburg, Germany

Theater, concert, gala: the Gersthofen city hall is a diverse event venue. Flying bars with decoration elements for theater effects can be moved safely, precisely and silently, thanks to BETA theater winches in the above-stage machinery.



Tbilisi Centre of Music and Culture, Tiflis

A sound element weighing approx. 35 tons is impressively suspended above the audience's heads in the Tbilisi Centre of Music and Culture in Tiflis, Georgia. Three redundant DELTA theater winches handle this object. Two redundantly arranged gear motors with brakes on each winch ensure maximum safety.



Königsgalerie Duisburg, Germany

A huge crown welcomes visitors to the Königsgalerie in Duisburg from high above. Seven individual segments of a crown continually move on steel ropes in the open space. They are held by several BETA winches with different lifting paths. Once every hour, the parts merge into the overall image of the crown.

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Technical data BETA EL DGUV V17/18

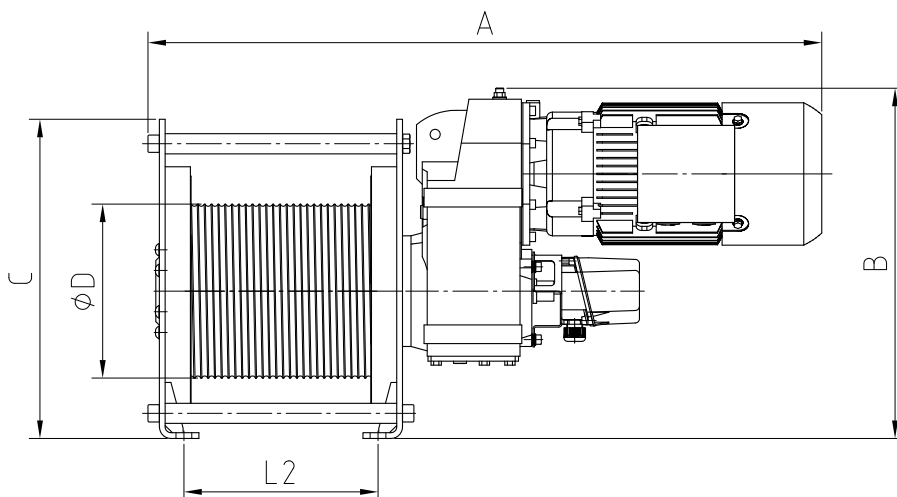
Size	Capacity 1 st layer [kg]	Rope speed 1 st layer [m/min]	FEM	BGV	Power [kW]	Rec. rope strength	Rec. rope Ø* [mm]	Rope capacity 1 st layer [m]	Weight [kg]	Dimensions in mm				
										A	B	C	ØD	L2
EL1	160	5.3	2m	C1	0.18	1960	6	13.6	66	762	375	325	175	264
EL1	160	9.4	2m	C1	0.25	1960	6	13.6	66	762	375	325	175	264
EL1	320	4.3	2m	C1	0.25	1960	6	13.6	66	782	375	325	175	264
EL1	320	8.9	2m	C1	0.55	1960	6	13.6	70	844	375	325	175	264
EL1	320	12.3	2m	C1	0.75	1960	6	13.6	72	844	375	325	175	264
EL1	320	18.0	2m	C1	1.1	1960	6	13.6	76	867	375	325	175	264
EL2	400	4.7	2m	C1	0.37	1960	8	17.1	90	856	475	444	242	338
EL2	400	8.5	2m	C1	0.55	1960	8	17.1	93	921	475	444	242	338
EL2	400	14.9	2m	C1	1.1	1960	8	17.1	99	944	475	444	242	338
EL2	250	20.0	2m	C1	1.1	1960	8	17.1	99	944	475	444	242	338
EL2	250	41.8	2m	C1	2.2	1960	8	17.1	113	944	475	444	242	338
EL3	630	4.8	2m	C1	0.55	1960	12	16.3	142	1019	596	547	295	406
EL3	630	14.2	2m	C1	1.5	1960	12	16.3	152	1067	596	547	295	406
EL3.5	1200	4.2	2m	C1	1.1	1960	14	13.8	188	1061	672	547	295	406
EL3.5	1200	10.6	2m	C1	2.2	1960	14	13.8	201	1177	672	547	295	406

*recommended rope: DIN EN 12385-2 19x7 WC 1960 -B-sZ

Technical data BETA EL BGV D8 plus

Size	Capacity 1 st layer [kg]	Rope speed 1 st layer [m/min]	EM	BGV	Power [kW]	Rec. rope strength	Rec. rope Ø** [mm]	Rope capacity 1 st layer [m]	Weight [kg]	Dimensions in mm				
										A	B	C	ØD	L2
EL1	160	5.3	2m	D8 plus	0.18	1960	6	13.6	66	762	375	325	175	264
EL1	160	9.4	2m	D8 plus	0.25	1960	6	13.6	66	762	375	325	175	264
EL1	320	4.3	2m	D8 plus	0.25	1960	6	13.6	66	782	375	325	175	264
EL1	320	8.9	2m	D8 plus	0.55	1960	6	13.6	70	844	375	325	175	264
EL2	400	4.7	2m	D8 plus	0.37	1960	8	17.1	90	856	475	444	242	338
EL2	400	8.5	2m	D8 plus	0.55	1960	8	17.1	93	921	475	444	242	338
EL3	630	4.8	2m	D8 plus	0.55	1960	12	16.3	142	1019	596	547	295	406
EL3	630	14.2	2m	D8 plus	1.5	1960	12	16.3	152	1067	596	547	295	406
EL3.5	1200	4.2	2m	D8 plus	1.1	1960	14	13.8	188	1061	672	547	295	406
EL3.5	1200	10.6	2m	D8 plus	2.2	1960	14	13.8	201	1177	672	547	295	406

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CAD & go



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The electric wire rope winch models BETA EX have been constructed for special uses. They are operationally safe where there is a danger of igniting explosive atmospheres (mixtures of air, gases, vapors or dust/air mixtures). Since the electrical wire rope winches can be

used in very different surroundings, the matching winch for each application can be assembled easily with our flexible construction kit system.

Equipment and processing

- Load 320 – 7500 kg
- High-grade surface coating
- Electrically released spring-operated disk brake (encapsulated)
- Three-phase drives for multi-range voltage 400V-50Hz, insulation class F, duty ratio 40 % ED
- Range of temperature: -20 °C – +40 °C
- Electronic overload protection as of 1000 kg lifting load (standard)
- Maintenance-free, spur gear with oil bath lubrication
- Variable rope direction by two rope fasteners (left and right)
- Gear limit switch adjustable for limiting the wire rope travel in both directions
- Gear limit switch encapsulated
- According to directive 2014/34/EU (ATEX)

Options

- Electric control according to directive 2014/34/EU (ATEX)
- Electric control non ATEX-compliant (mounted outside ATEX area)
- Special wire rope drums
- Pressure roller
- Special voltages
- Special wire ropes with copper-plated lifting hooks
- Sheaves, wire rope pulley blocks (ATEX-compliant according to directive 2014/34/EU)



Dimensions and technical data on request