

# EUROWINCH®



**Type MD EUROWINCH  
electric winches  
for loads from 125 to 5000 kg**



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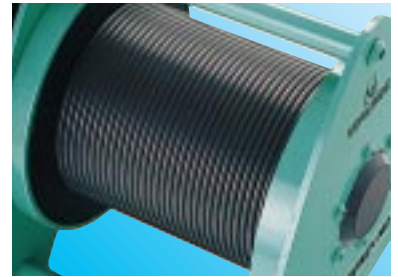
This line of multi-purpose electric winches for hoisting and traction is the perfect answer to all your needs (wide range of loads, numerous options available), including the most heavy-duty requirement (VGB 70 version). In addition, the equipment is discrete in its also compactness and modest maintenance requirements.

## General characteristics

The MD type **EUROWINCH** electric winches offer five winch frames, covering a wide range of loads from 125 to 5000 kg (for type 1Bm, 1Am and 2m application groups) and are in compliance with "CE" directive 89/392/EEC.

The MD type **EUROWINCH** electric winches offer the following as standard :

- A grooved drum with 2 cable attachments for enhanced precision and safety.
- A gearbox with a gear system with machined, ground and case-hardened teeth ensuring extremely silent operation. The gear box is lubricated in a sealed oil bath casing endowing our winch with the longest possible service life for limited maintenance by the user.
- An electromagnetic disk brake to maintain the load in all positions.
- A modular, evolutive structure frame, providing a multi-direction feature to lead the cable off the drum.
- A low voltage (42 V) control box with "UP-DOWN" button, emergency stop and main switch.
- An electronic load limiter is supplied as standard for the winches with load ratings of over 1000 kg.
- A hoisting motor with a power of 0.15 to 18.75 kW, type F protection, designed for a power supply of 380-420 V/50 Hz/3-phase or 440-480 V/60 Hz/3-phase (in which case, the speed increases by 20%). S -40% service mode for 120 actuations per hour.
- IP 54 protection for all the electrical components.



## Optional equipment

The type MD **EUROWINCH** is available in the VBG 70 version as option (consult us for the models available). The type MD **EUROWINCH** winches can be equipped with the following electrical, mechanical or protection level options :

2 speeds (2-speed motor by pole switching) guaranteeing the user with accurately positioned loads and preventing starting jolts.

Single-phase motor (230 V AC) available on : MD 1 for 500 and 630 kg loads ; MD 2 for 980 and 1000 kg loads ; MD 3 for 1600 kg load.

Drum with special grooves for 2, 3,... rope outlets.

Black rope detection.

Rope pressure box.

Limit switch.

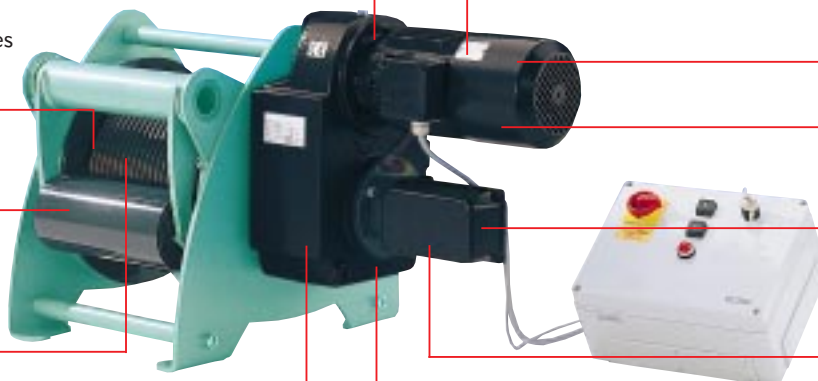
Extended drum for greater winding capacity.

Geared limit switch on reduction gearbox.

Electronic load limiter (standard on winches with load ratings exceeding 100 kg).

Protection motor IP 55 or IP 65

Power supply non standard.



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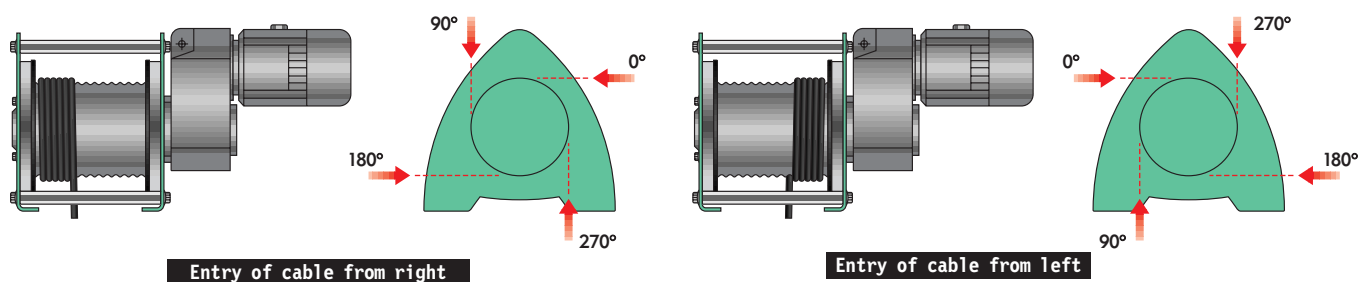
Type MD electric winches from loads of 125 to 5000 kg

## Winch positions - Cable payoffs - Applications

### Winch positions



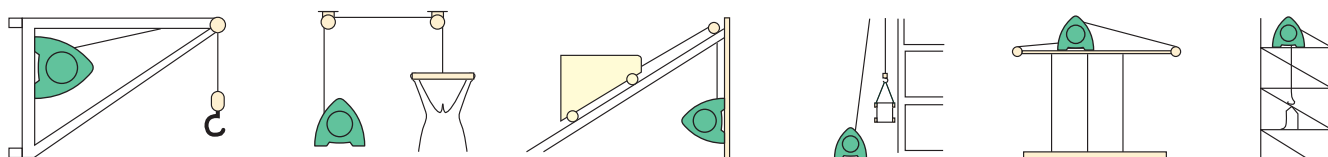
### Cable payoff



Recommended rope type (FE-znk 1770 aZ-spa).

Cable diameter (mm)	DIN standard	Type of construction
5 and 8	3060	6 x 19 standard
12, 18, 20 and 22	3064	6 x 36 W-S

### Typical applications



### Precautions when using

The type MD EUROWINCH electric winches have been designed to meet all requirements of the hoisting and pulling market. This type of winch can be used either in the "hoisting function" configuration, with all the safeties required by applicable standards, or the "traction or pulling function" configuration, with the all the robustness of hoisting.

**Note:** The traction mode indicated applies for a mobile object moving under optimum conditions.

**Important!** 3 turns of cable must always be left wound on the drum at the end of travel. The winches are delivered without ropes.

#### Requirements for using winches for pulling or traction.

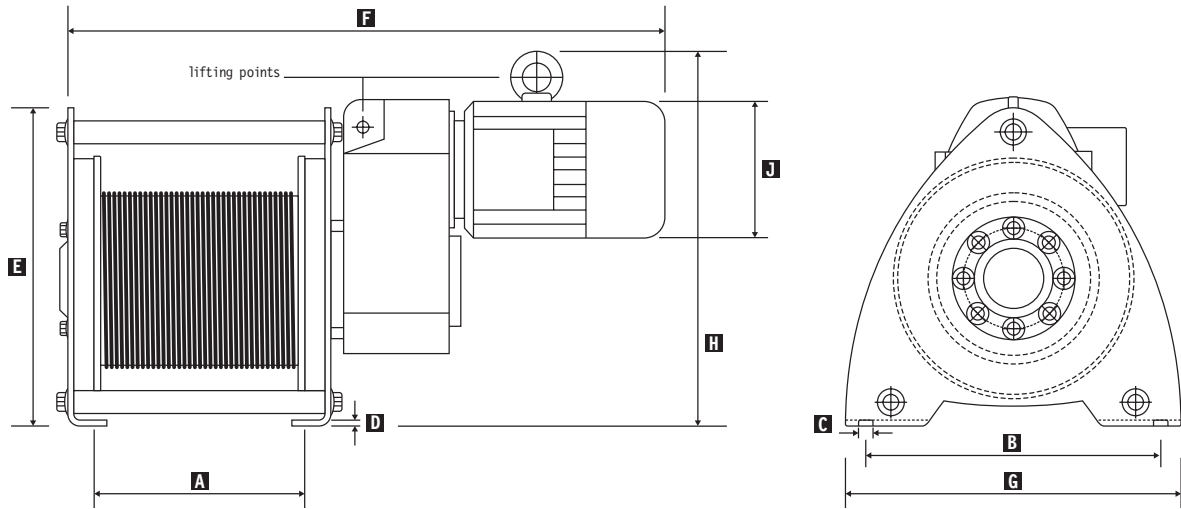
During traction, the force of the motor applied to the cable must never exceed the nominal load capacity of the hoisting winch. Optimum rolling conditions: calculation of the load that can be pulled is contingent upon the conditions of the moving object, namely the following parameters:

- Whether the wheels are mounted on ball bearings or not.
- The diameter of the wheels (the greater the diameter, the less the force that need be applied).
- The material from which the wheels are made will have an impact on the rolling (rail, asphalt, concrete or sand) and the slope if applicable.

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## Overall dimensions - Technical characteristics



EUROWINCH type	HEM group	Load rating capacity (kg)	Speed (m/mn)	Motor power (kW)	Cable Ø* (mm)	Winding capacity (m)		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	Weight (kg)
						1st layer	2nd layer										
MD1	2m	125	6.0	0.15	5	17.0	78.0	215	300	13.5	6	325	664	340	387	138	60
MD1	2m	125	19.6	0.46	5	17.0	78.0	215	300	13.5	6	325	664	340	387	138	60
MD1	2m	250	6.0	0.31	5	17.0	78.0	215	300	13.5	6	325	664	340	387	138	60
MD1	2m	250	19.6	0.94	5	17.0	78.0	215	300	13.5	6	325	700	340	443	158	60
MD1	1Am	500	3.7	0.31	5	8.7	58.5	215	300	13.5	6	325	664	340	387	138	60
MD1	1Am	500	8.9	0.94	6	8.7	58.5	215	300	13.5	6	325	700	340	443	158	60
MD1	1Am	500	3.7	0.37	6	8.7	58.5	215	300	13.5	6	325	664	340	387	138	60
MD1	1Am	500	1.0/7.5	0.075/0.65	6	8.7	58.5	215	300	13.5	6	325	740	340	352	176	60
MD1	1Am	500	3.0/12.3	0.30/1.20	6	8.7	58.5	215	300	13.5	6	325	765	340	352	176	60
MD1	1Bm	630	3.0	0.31	6	7.0	48.9	215	300	13.5	6	325	664	340	387	138	60
MD1	1Bm	630	7.1	0.94	6	7.0	48.9	215	300	13.5	6	325	700	340	443	158	60
MD1	1Bm	630	3.0	0.37	6	7.0	48.9	215	300	13.5	6	325	664	340	387	138	60
MD1	1Bm	630	0.8/6.0	0.075/0.65	6	7.0	48.9	215	300	13.5	6	325	740	340	352	176	60
MD1	1Bm	630	2.2/9.7	0.30/1.20	6	7.0	48.9	215	300	13.5	6	325	765	340	352	176	60
MD2	1Am	980	4.2	0.94	9	11.5	77.7	270	400	18	8	444	807	465	444	160	85
MD2	1Am	980	7.9	1.38	9	11.5	77.7	270	400	18	8	444	844	465	452	176	85
MD2	1Am	980	3.7	1.10	9	11.5	77.7	270	400	18	8	444	871	465	444	176	85
MD2	1Am	980	6.0	1.50	9	11.5	77.7	270	400	18	8	444	871	465	444	176	85
MD2	1Am	980	0.8/5.1	0.11/0.90	9	11.5	77.7	270	400	18	8	444	1059	465	452	176	85
MD2	1Am	980	4.3/18	0.75/3.0	9	11.5	77.7	270	400	18	8	444	946	465	474	220	85
MD2	1Am	1000	4.2	0.94	9	11.5	77.7	270	400	18	8	444	807	465	444	160	85
MD2	1Am	1000	7.9	1.38	9	11.5	77.7	270	400	18	8	444	844	465	452	176	85
MD2	1Am	1000	0.8/5.1	0.11/0.90	9	11.5	77.7	270	400	18	8	444	1059	465	452	176	85
MD2	1Am	1000	4.3/18	0.75/3.0	9	11.5	77.7	270	400	18	8	444	946	465	474	220	85
MD2	1Bm	1250	3.4	0.94	9	9.1	64.3	270	400	18	8	444	807	465	444	160	85
MD2	1Bm	1250	6.3	1.38	9	9.1	64.3	270	400	18	8	444	844	465	452	176	85
MD2	1Bm	1250	0.6/4.0	0.11/0.90	9	9.1	64.3	270	400	18	8	444	1059	465	452	176	85
MD2	1Bm	1250	3.4/14.3	0.75/3.0	9	9.1	64.3	270	400	18	8	444	946	465	474	220	85
MD3	1Bm	2000	3.3	1.38	12	10.3	74.2	320	510	21	10	547	939	570	562	176	145
MD3	1Bm	2000	6.6	2.75	12	10.3	74.2	320	510	21	10	547	1011	570	572	196	145
MD3	1Bm	2000	0.6/4.2	0.18/1.4	12	10.3	74.2	320	510	21	10	547	1178	570	573	196	145
MD3	1Bm	2000	2.3/9.4	0.75/3.0	12	10.3	74.2	320	510	21	10	547	1042	570	585	220	145
MD3	1Bm	2000	3.8/15.4	1.5/6.0	12	10.3	74.2	320	510	21	10	547	1125	570	608	265	145
MD3	1Bm	1600	3.3	1.10	12	10.3	74.2	320	510	21	10	547	958	570	562	176	145
MD4	2m	3200	6.9	5.00	18	16.7	63.2	380	660	26	12	687	1181	720	726	220	400
MD5	2m	4000	7.7	6.88	20	21.7	80.7	430	800	32	15	844	1715	882	994	265	1050
MD5	2m	5000	4.1	5.00	22	18.6	43.8	430	800	32	15	844	1632	882	930	220	1000
MD5	2m	5000	17.0	18.75	22	18.6	43.8	430	800	32	15	844	1877	882	1030	317	1100

\*The EUROWINCH winches are delivered without cable.

### Operating temperatures

Temperature range ..... -20°C → +40°C

### Overall dimensions of consoles (LxWxH)

**270x220x110 mm** for EUROWINCH MD1 and MD2 with maximum load capacities of less than 1000 kg.

**335x270x165 mm** for EUROWINCH with maximum load capacities of more than 1.000 kg or for model with overload limiter as option.

**540x360x180 mm** for EUROWINCH MD5 with motor power of more than 7,5kW.