PL-SERIE
800 KG TO 11 T

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include in any case: a limit switch device, and from 1000 kg: a load limiter.

- A range of electric winches suitable for intensive use in severe conditions – FEM/ISO 3m/M6– when lifting or pulling.
- Their extreme robustness, their high winding capacity and their high speeds mean that they can be used for many purposes.
- Industry (production line supply, waste removal, maintenance, loaders, en-mass conveyors, etc).
- Building and public works (bridge-laying, freight elevators, handling, assembly, high-rise sites, etc).
- Railways (wagon or train haulage, traction of heavy loads...).
- Other applications: conveyor belt tensioning.

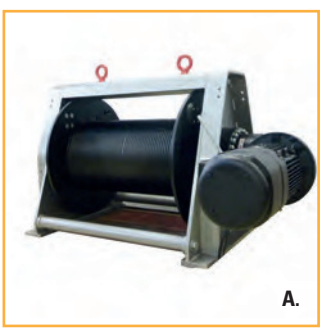
Technical properties

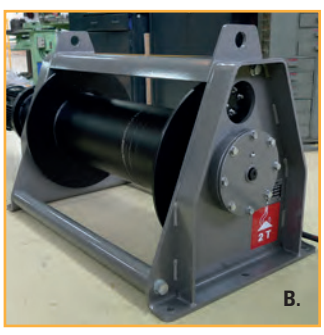
- Available in orthogonal or coaxial model.
- Motor: 1 speed three-phase 400V-50Hz. IP 55.
- Other voltages or frequencies optional.
- Fully sealed planetary gear reducer (reduced maintenance) with optional angle transmission on motor.
- To give greater freedom to users and to provide the means for adapting to every situation, the control unit is proposed separately.
- Up to 4 ton, the choice between two types of unit is proposed:
  - 24 V extra-low voltage, comprising of:
    - > Contactors,
    - > Power line breaker,
    - > Thermal circuit breaker,
    - > Not disconnectable pendant control, 3 m cable.
  - Variable speed extra-low voltage, comprising of:
    - > Power line breaker,
    - > Variable speed control,
    - > Braking resistance,
    - > Pendant control with potentiometer, 3 m cable.
- From 5 ton capacity, the extra-low voltage variable speed control is mandatory.
- Numerous rope outlet possibilities : consult us (see p. 61 to 67).

PL 2 t
Coaxial model

PL 11 t
Orthogonal model (horizontal or vertical position possibility)

Strong points


A.


B.

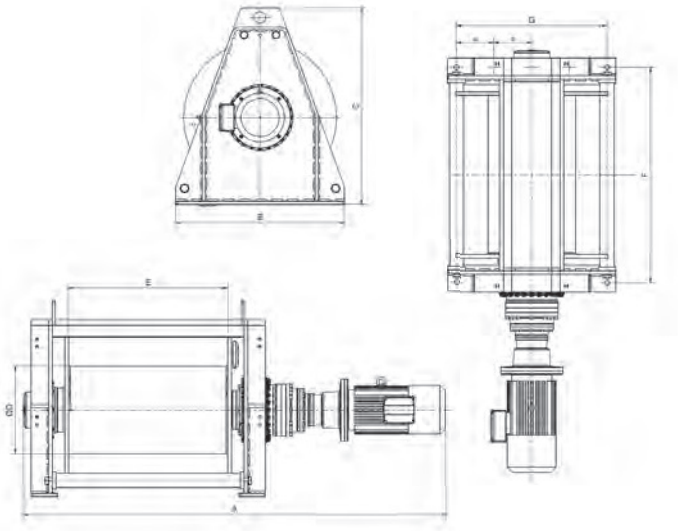

C.

A. The optimization of their chassis allows easy adaptation to your specific needs: length of drum on request (options), rope slack switch and easily-adaptable rope-press roller.

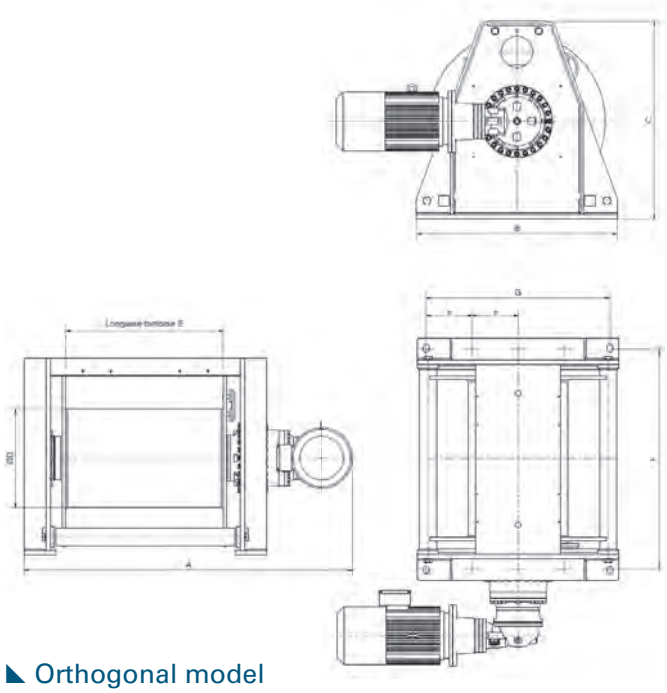
B. Extreme sturdiness and reliable parts by HUCHEZ.

C. Integrated control unit (specific realization on request).

Dimensions



Coaxial model



Orthogonal model

Models		800 PL		1000 PL		1500 PL	2000 PL		3000 PL	4000 PL		5000 PL	
		26	45	19	37	28	21	42	36	15	23	19	24
A mm	Coaxial	1556	1665	1602	1665	1725	2127	2248	2344	2250	2407	2434	2434
	Orthogonal	1248	1108	1248	1228	1273	1682	1707	1707	1749	1749	1775	1775
B mm		500		500		500	760		760	760		900	
C mm	Coaxial	560		560		560	830		830	830		950	
	Vertical orthogonal	888	1103	888	1103	1101	1171	1347	1419	1324	1481	1526	
	Horizontal orthogonal	560		560		560	830		830	830		950	
Ø D mm		229		229		229	324		324	356		394	
E mm		600		600		600	900		900	900		900	
F mm		785		785		785	1150		1150	1150		1150	
G mm		410		410		410	670		670	670		810	

Models		7000 PL		8000 PL		9000 PL		10000 PL	11000 PL		
		8	17	6	12	7	14	12	5	7	11
A mm	Coaxial	2389	2478	2358	2546	2419	2576	2509	2576	2504	2419
	Orthogonal	1842	1842	1876	1876	1876	1876	1876	1876	1876	1876
B mm		950		950		1150		1150		1150	
C mm	Coaxial	1110		1110		1315		1315		1315	
	Vertical orthogonal	1377	1534	1346	1534	1504	1661	1661	1504	1589	1661
	Horizontal orthogonal	1110		1110		1315		1315		1315	
Ø D mm		495		495		570		570		570	
E mm		900		900		900		900		900	
F mm		1220		1220		1255		1255		1255	
G mm		850		850		1050		1050		1050	

Applications


1


2

3

1. Winch located in a tunnel between France and Switzerland to pull a carriage.

2. Winch use in a Paris construction site.

3. Launching catamarans.

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Technical characteristics

References	800 PL		1000 PL		1500 PL	2000 PL		3000 PL	4000 PL		5000 PL	
	26	45	19	37	28	21	42	36	15	23	19	24
Capacity 1st layer kg	**980**		**1220**		**1930**	**2460**		**3830**	**5150**		**6430**	
Capacity top layer kg	800		1000		1500	2000		3000	4000		5000	
Nb of layers	4		4		4	4		4	4		4	
Wire rope cap. 1st layer m*	48		48		37	70		58	55		55	
Wire rope cap. top layer m*	220		220		175	320		270	265		260	
Wire rope Ø mm	9		9		11.5	13		15.8	18		20	
Speed 1st layer m/mn **	21 (20)	36 (38)	16 (16)	30 (24)	22 (21)	17 (17)	34 (32)	28 (22)	12 (12)	18 (18)	14 (15)	17 (19)
Speed top layer. m/mn **	26 (25)	45 (46)	19 (20)	37 (30)	28 (27)	21 (21)	42 (41)	36 (28)	15 (15)	23 (23)	18 (19)	22 (24)
FEM	3m		3m		3m	3m		3m	3m		3m	
Motor kW	4	7.5	4	7.5	9.2	7.5	15	18.5	11	18.5	18.5	22
Power	3 Ph - 230/400 V		3 Ph - 230/400 V		3 Ph - 230/400 V	3 Ph - 230/400 V		3 Ph - 400/690 V	3 Ph - 400/690 V		3 Ph - 400/690 V	
Weight (without wire rope) kg	270	295	270	295	300	680	700	800	780	850	1040	1060

References	7000 PL		8000 PL		9000 PL		10000 PL	11000 PL		
	8	17	6	12	7	14	12	5	7	11
Capacity 1st layer kg	**8940**		**10 390**		**11 700**		**13 000**	**14 300**		
Capacity top layer kg	7000		8000		9000		10 000	11 000		
Nb of layers	4		4		4		4	4		
Wire rope cap. 1st layer m*	56		52		51		51	51		
Wire rope cap. top layer m*	270		255		250		250	250		
Wire rope Ø mm	24		26		30		30	30		
Speed 1st layer m/mn **	6 (6)	13 (12)	4 (4)	9 (9)	5 (5)	10 (10)	9 (9)	4 (4)	6 (5)	8 (8)
Speed top layer. m/mn **	8 (8)	16 (16)	6 (6)	12 (12)	7 (7)	14 (14)	12 (12)	5 (5)	8 (7)	11 (11)
FEM	3m		3m		3m		3m	3m		
Motor kW	11	22	9,2	18,5	11	22	22	11	15	22
Power	3 Ph - 400/690 V		3 Ph - 230/400 V	3 Ph - 400/690 V	3 Ph - 400/690 V		3 Ph - 400/690 V	3 Ph - 400/690 V		
Weight (without wire rope) kg	1350	1430	1290	1410	1940	2000	2000	1940	1890	2000

The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 5 when lifting with non-rotating rope.

* Rope and hook extra (see p. 88 to 91).

** Data concerning the orthogonal model in brackets.