



- Range of electric winches initially designed to satisfy the needs of the industrial sector . Robust and highly compact, they are suitable for all lifting or pulling/hauling applications from 1 to 10 tonnes as standard.
- Vertical attachment possible.
- Opening hatches.
- Lifting sluice gates doors.
- Pulling heavy loads.
- Conveyor belt tensioning.

▲ Technical properties

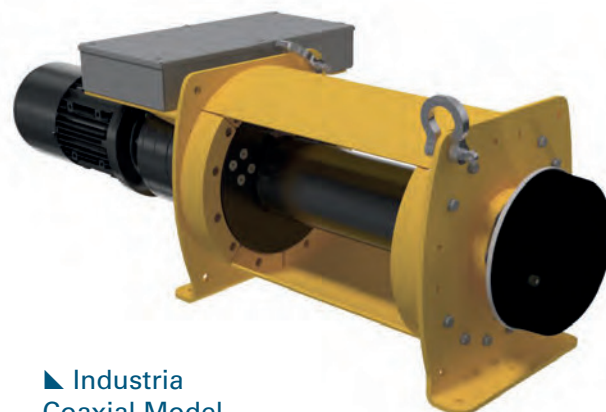
- Single-phase 230 V or three-phase 230/400 V - 50 Hz brake motor. Protection IP 55. Other voltages or frequencies as option: Contact us.
- Range of motors from 1.1 to 9.2 kW.
- Planetary gearbox (reduced maintenance) in orthogonal or coaxial version.
- Engine position: horizontal (vertical possible on request).
- Numerous cable outlets and options: rope press roll and rope slack switch integrated into the tie rod, lower frame..., contact us (see p. 61-67).

▲ LOW VOLTAGE CONTROL 1 SPEED MODELS

- Three-phase 230/400 V – 50 Hz motor brake. Protection IP 55. Optional other voltages or frequencies.
- Sealed electrical unit on the winch, consisting of:
 - > Contactors.
 - > 24 V transformers.
 - > Thermal circuit breaker.
 - > Disconnectable control box with 3 m of cable.

▲ LOW VOLTAGE CONTROL VARIABLE SPEED MODELS

- Smooth starts and stops.
- Sealed electrical unit on variable speed unit consisting of: frequency inverter, braking resistance, disconnectable control box with potentiometer (3 m of cable).
- Adjustable speed from 10% to 100%, gradually by potentiometer.
- Acceleration and deceleration ramp programming tables.
- Speed programming according to use.

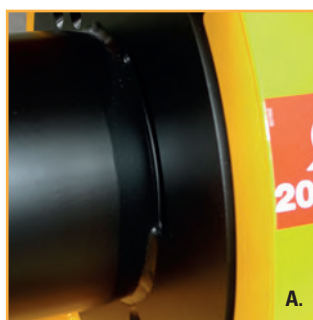


▲ Industria
Coaxial Model



▲ Industria
Orthogonal Model

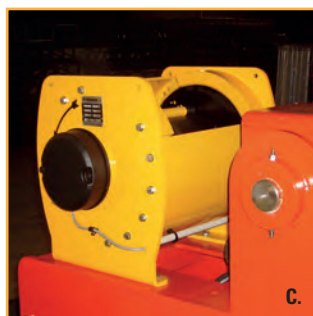
▲ Strong points



A.



B.



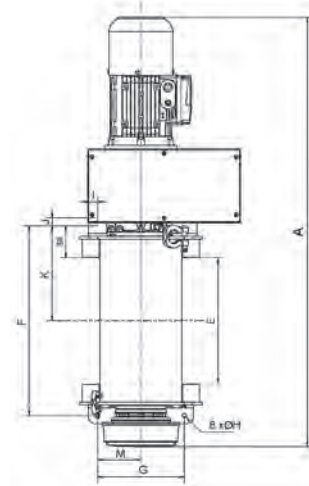
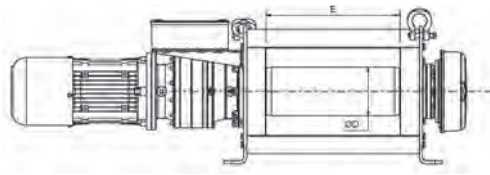
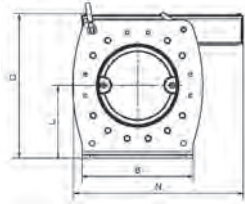
C.

A. Anti-escape system for the cable. Reduced space between the tie-rod and the drum.

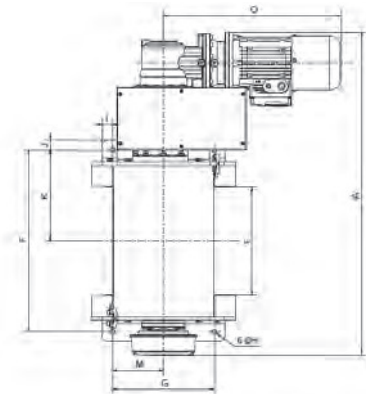
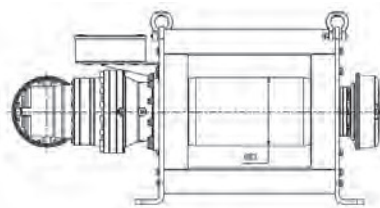
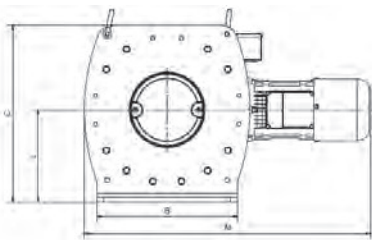
B. The tie-rods are positionable according to the cable outlet.

C. Rope press roller and rope slack switch incorporated under the upper tie-rod.

Dimensions



► Coaxial model (1T only).
Other models on request.



► Orthogonal model

LOW VOLTAGE CONTROL - 1 SPEED MODELS

Models	INDUSTRIA										
	1T 05BT/10BT	1T coaxial 05BT/10BT	2T 05BT/09BT	3T 03BT/06BT	4T 02BT/05BT	5T 03BT/07BT	6T 02BT/06BT	7T 02BT/06BT	8T 02BT/05BT	9T 02BT/05BT	10T 03BT/05BT
A in mm	911	1159/1189	1050/1045	1065/1090	1169/1194	1194/1220	1224/1250	1241/1267	1241/1267	1288/1314	1288/1314
B in mm	290	290	420	420	520	520	650	700	700	840	840
C in mm	375	375	500	500	665	665	765	870	870	975	975
Ø D in mm	125	125	219.1	219.1	292	292	323.9	355.6	355.6	406.4	406.4
E in mm	350	350	350	350	350	350	350	350	350	350	350
F in mm	525	525	590	590	600	600	600	720	720	720	720
G in mm	240	240	330	330	420	420	420	620	620	750	750
I in mm	25	25	45	45	50	50	115	40	40	45	45
J in mm	23	23	32	32	30	30	30	50	50	47	47
K in mm	263	263	295	295	300	300	300	360	360	360	360
Ø H in mm	12	12	16	16	22	22	22	30	30	32	32
M in mm	120	120	165	165	210	210	210	310	310	375	375
N in mm	716/748	443	823/902	823/902	905/984	954/1190	1013/1181	1103/1271	1133/1271	1176/1314	1176/1314
O in mm	548/578	X	578/657	578/657	578/657	627/795	627/795	662/830	692/830	692/830	692/830

LOW VOLTAGE CONTROL - VARIABLE SPEED MODELS

Models	INDUSTRIA										
	1T 05VV/10VV	1T coaxial 05VV/10VV	2T 05VV/09VV	3T 03VV/06VV	4T 02VV/05VV	5T 03VV/07VV	6T 02VV/06VV	7T 02VV/06VV	8T 02VV/05VV	9T 02VV/05VV	10T 03VV/05VV
A in mm	911	1159/1189	1050/1045	1065/1090	1169/1194	1194/1220	1224/1250	1241/1267	1241/1340	1288/1367	1288/1367
B in mm	290	290	420	420	520	520	650	700	700	840	840
C in mm	473	473	579/500	579/500	737/665	665	765	870	870	975	975
Ø D in mm	125	125	219.1	219.1	292	292	323.9	355.6	355.6	406.4	406.4
E in mm	350	350	350	350	350	350	350	350	350	350	350
F in mm	525	525	590	590	600	600	600	720	720	720	720
G in mm	240	240	330	330	420	420	420	620	620	750	750
I in mm	25	25	45	45	50	50	115	40	40	45	45
J in mm	23	23	32	32	30	30	30	50	50	47	47
K in mm	263	263	295	295	300	300	300	360	360	360	360
Ø H in mm	12	12	16	16	22	22	22	30	30	32	32
M in mm	120	120	165	165	210	210	210	310	310	375	375
N in mm	716/748	443	823/902	823/902	905/1052	1022/1122	1067/1220	1103/1271	1133/1271	1176/1314	1176/1314
O in mm	548/578	X	578/657	578/657	578/657	627/795	627/795	662/830	692/830	692/830	692/830



Technical characteristics

LOW VOLTAGE CONTROL – MODELS WITH 1 SPEED

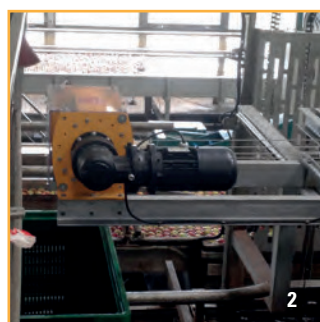
References	1T		2T		3T		4T		5T	
	05BT	10BT	05BT	09BT	03BT	06BT	02BT	05BT	03BT	07BT
Capacity 1st layer kg	1255		2420		3765		4985		6230	
Capacity top layer kg	1000		2000		3000		4000		5000	
Nb of layers	3		3		3		3		3	
Wire rope cap. 1st layer m/mn*	17		20		16		16		16	
Wire rope cap. top layer m/mn*	60		71		59		60		60	
Wire rope Ø mm	8		11,5		14		18		18	
Speed 1st layer m/mn	4	8.5	4.5	8	2.5	4.5	2	3.5	2.5	6
Speed top layer m/mn	5	10.5	5.5	9.5	3.5	5.5	2.5	4.5	3	7.5
FEM	1Am		1Am		1Am		1Am		1Am	
Motor kW	1.1	2.2	2.2	4	2.2	4	2.2	4	3	9.2
Power	3 Ph-230/400V									
Weight (without wire rope) kg	140	150	260	280	260	280	440	470	450	530

References	6T		7T		8T		9T		10T	
	02BT	06BT	02BT	06BT	02BT	05BT	02BT	05BT	03BT	05BT
Capacity 1st layer kg	7480		8725		9975		11 120		12 355	
Capacity top layer kg	6000		7000		8000		9000		10 000	
Nb of layers	3		3		3		3		3	
Wire rope cap. 1st layer m/mn*	16		15		15		16		16	
Wire rope cap. top layer m/mn*	60		60		60		62		62	
Wire rope Ø mm	20		22		22		24		24	
Speed 1st layer m/mn	1.5	5	1.5	4.5	2	4	1.5	4	2	3.5
Speed top layer m/mn	2	6	2	5.5	2.5	5	2	4.5	2.5	4.5
FEM	1Am		1Am		1Am		1Am		1Am	
Motor kW	3	9.2	3	9.2	4	9.2	4	9.2	5.5	9.2
Power	3 Ph-230/400V									
Weight (without wire rope) kg	580	660	840	910	850	910	1160	1230	1180	1230

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).

Applications



1. Handling a fir tree.
2. Handling boxes on a production line.
3. Lifting of conveyor arms.
4. Supplying materials on site.
5. Industria coaxial model on trolley.

Technical characteristics

LOW VOLTAGE CONTROL - MODELS WITH FREQUENCY INVERTER

References	1T		2T		3T		4T		5T	
	05VV	10VV	05VV	09VV	03VV	06VV	02VV	05VV	03VV	07VV
Capacity 1st layer kg	1255		2420		3765		4985		6230	
Capacity top layer kg	1000		2000		3000		4000		5000	
Nb of layers	3		3		3		3		3	
Wire rope cap. 1st layer m/mn*	17		20		16		16		16	
Wire rope cap. top layer m/mn*	60		71		59		60		60	
Wire rope Ø mm	8		11,5		14		18		18	
Speed 1st layer m/mn	0.4-4	0.8-8.5	0.4-4.5	0.8-8	0.2-2.5	0.4-4.5	0.2-2	0.3-3.5	0.2-2.5	0.6-6
Speed top layer m/mn	0.5-5	1-10.5	0.5-5.5	0.9-9.5	0.3-3.5	0.5-5.5	0.3-2.5	0.4-4.5	0,3-3	0.7-7.5
FEM	1Am		1Am		1Am		1Am		1Am	
Motor kW	1.1	2.2	2.2	4	2.2	4	2.2	4	3	9.2
Power	1Ph 230V 3Ph 230/400V		1Ph 230V - 3Ph 230/400V		3Ph 230/400V		1Ph 230V - 3Ph 230/400V		3Ph 230/400V	
Weight (without wire rope) kg	150	155	270	300	270	300	450	500	480	540

References	6T		7T		8T		9T		10T	
	02VV	06VV	02VV	06VV	02VV	05VV	02VV	05VV	03VV	05VV
Capacity 1st layer kg	7480		8725		9975		11 120		12 355	
Capacity top layer kg	6000		7000		8000		9000		10 000	
Nb of layers	3		3		3		3		3	
Wire rope cap. 1st layer m/mn*	16		15		15		16		16	
Wire rope cap. top layer m/mn*	60		60		60		62		62	
Wire rope Ø mm	20		22		22		24		24	
Speed 1st layer m/mn	0.1-1.5	0.5-5	0.1-1.5	0.4-4.5	0.2-2	0.4-4	0.1-1.5	0.4-4	0.2-2	0.3-3.5
Speed top layer m/mn	0.2-2	0.6-6	0.2-2	0.5-5.5	0.3-2.5	0.5-5	0.2-2	0.5-4.5	0.3-2.5	0.4-4.5
FEM	1Am		1Am		1Am		1Am		1Am	
Motor kW	3	9.2	3	9.2	4	9.2	4	9.2	5.5	9.2
Power	3 Ph-230/400V									
Weight (without wire rope) kg	610	670	870	920	880	920	1190	1250	1210	1250

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).