

△ TRBoxter 500 kg, low voltage control, 1 speed model (BT).



△ TRBoxter 1500 kg, low voltage control, variable speed model (VV).

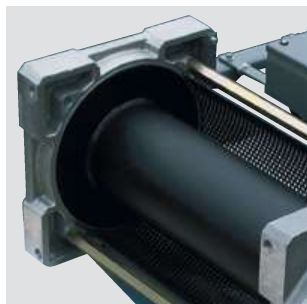
▶ **Capacities from 250 to 1500 kg.**
Multifunctional compact electric winches with a high duty factor.

- ▶ FEM 1Cm / 1Bm / 1Am - Occasional, moderate or accentuated use, depending on model.
- ▶ Aluminum housing.
- ▶ Mechano-welded steel drum.
- ▶ Greased reducer with helical gears.
- ▶ Asynchronous motor. IP 54 protection.
- ▶ Automatic lack of current brake.
- ▶ Single phase power 230V-50Hz or three phase 400V-50Hz (other tension on request) depending on model.
- ▶ Very low voltage control (BT) ensuring user protection against electrical risks : single speed models (BT) or speed variation model (VV). In addition to the advantages of very low voltage, the VV control allows variation of the winding speed, smooth starts and stops.
- ▶ Thermal circuit breaker.
- ▶ 3 buttons pendant control (Up - Down- Emergency Stop):
 - ▷ Removable (3 m long control cable) on BT models.
 - ▷ Not removable (3 m long control cable) on VV models.

- Options**
- ▷ Wire rope (m/l or kit) and hook (see p. 94-98).
 - ▷ Limit switch.
 - ▷ Rope press roller.
 - ▷ Electronic load limiter.
 - ▷ Grooved drum.
 - ▷ Radio control.
 - ▷ Other options, see p. 66-72.

▶ **Strong points**

▶ Many fixations possibilities (on trolley see p. 54, on ceiling...).



▶ Long drum models : T drum length and wire rope capacity x 1.5.



▶ Drum protected by an orientable perforated metal sheet. Wide flanges for large cable capacity.



▶ Highly reliable cable clamp not requiring special tool with rope winding direction guide. Nut cage for easy attachment.



▶ Reliability of electric and electronic components.

See the following pages :

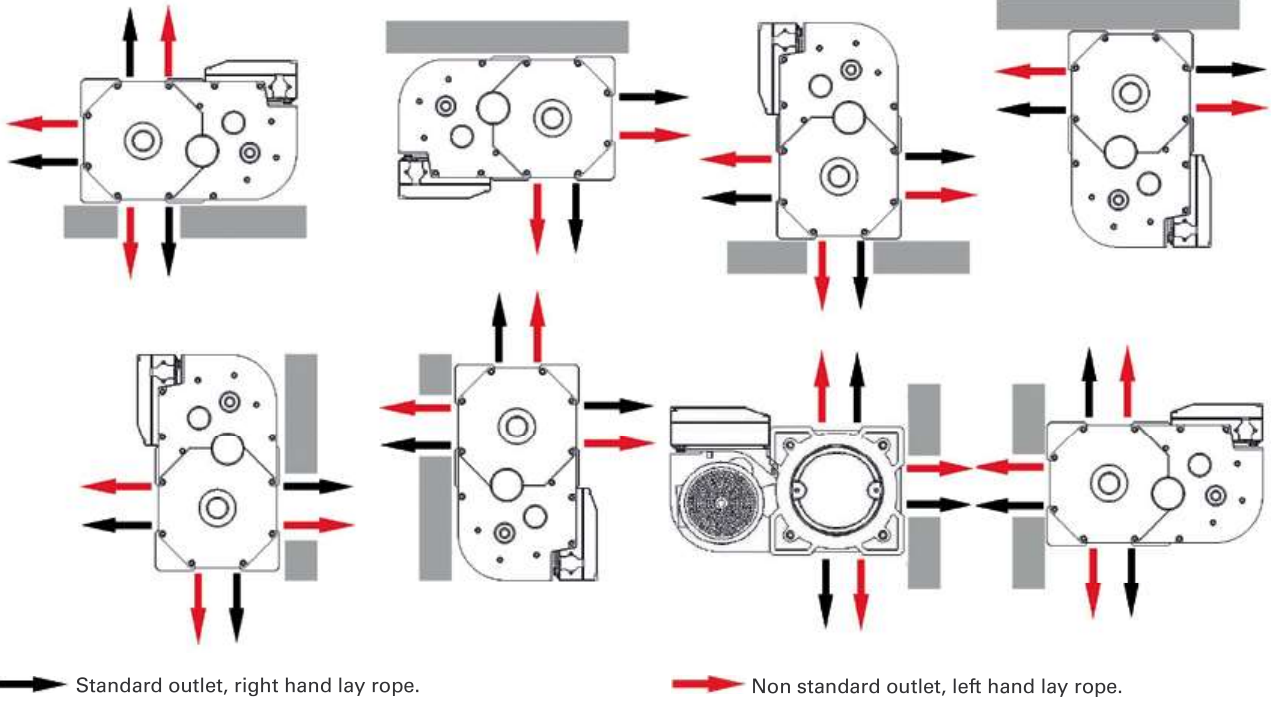
Stainless steel range p. 46

High lifting range p. 54





▶ Rope outlets



▶ Applications

- ▶ Boat hauling
- ▶ Opening of hatches, doors...
- ▶ Installation and exit of parts in furnace.



▶ Goods lift.



▶ On translation bracket.



▶ Ceiling mounting.



▶ Shows.



▶ Chandelier handling.



▶ Moving a trolley on a conveyor during maintenance operation.

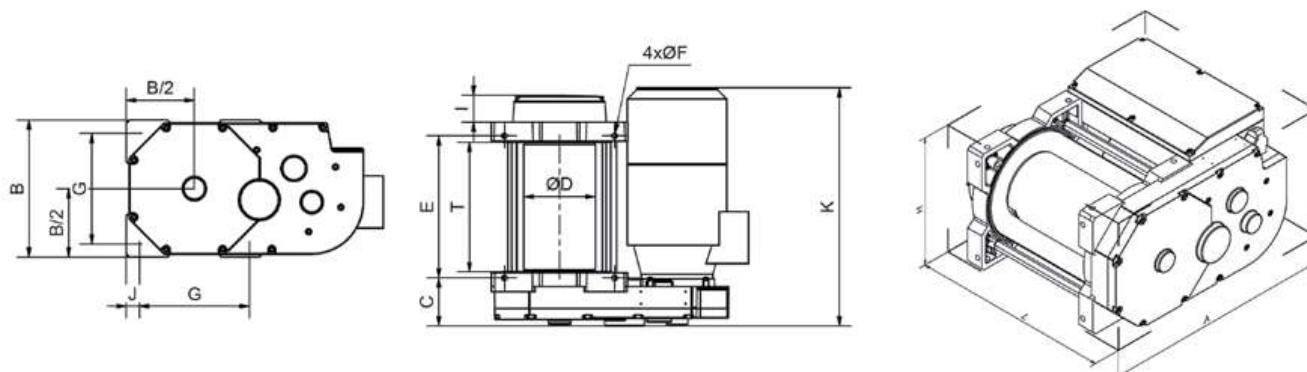


▶ Loading of a barge.





Dimensions



Models		1 speed models				Variation speed models			
		TRBOXTER 250 to 500		TRBOXTER 600 to 1500		TRBOXTER 250 to 500		TRBOXTER 600 to 1500	
		Standard	Long	Standard	Long	Standard	Long	Standard	Long
A mm	0.75 kW Motor	451	451	535.5	535.5	475	475	574	574
	1.1 kW Motor	462	462	543	543	475	475	574	574
	1.5 kW Motor	-	-	541	541	-	-	574	574
	2.2 kW Motor	473	473	554	554	475	475	574	574
	3 kW Motor	-	-	558	558	477	475	574	574
	4 kW Motor	-	-	558	558	-	-	574	574
Ø D mm		121	121	159	159	121	121	159	159
E mm		255	255	318	463	255	370	318	463
Ø F mm		10.5	10.5	12.5	12.5	10.5	10.5	12.5	12.5
G mm		197	197	246	246	197	197	246	246
H mm	0.75 kW Motor	284.5	284.5	332.5	332.5	345	345	391	391
	1.1 kW Motor	284.5	284.5	332.5	332.5	345	345	391	391
	1.5 kW Motor	-	-	332.5	332.5	-	-	391	391
	2.2 kW Motor	306.5	306.5	332.5	332.5	345	345	391	391
	3 kW Motor	-	-	332.5	332.5	345	345	391	391
	4 kW Motor	-	-	332.5	332.5	-	-	449	449
K mm		488	471	495.5	495.5	488	471	495.5	495.5
L (without / with limit switch) mm	0.75 kW Motor	356/421	468/533	456/516	601/661	356/421	468/533	456/516	601/661
	1.1 kW Motor	356/421	468/533	456/516	601/661	356/421	468/533	456/516	601/661
	1.5 kW Motor	-	-	456/516	601/661	-	-	456/516	601/661
	2.2 kW Motor	488/488	468/533	507/516	601/661	488/488	468/533	495,5/516	601/661
	3 kW Motor	-	-	511/516	601/661	488/488	468/533	511/516	601/661
	4 kW Motor	-	-	533/533	601/661	-	-	533/533	601/661
T mm		230	345	290	435	230	345	290	435





Technical characteristics TRBoxter

Very low voltage control, 1 speed models (BT)

References	TRBOXTER 251			TRBOXTER 253				TRBOXTER 351	
	BT9	BT14	BT21	BT9	BT14	BT21	BT43	BT9	BT14
Capacity top layer kg	250	250	250	250	250	250	250	350	350
Capacity 1st layer kg	290	290	290	290	290	290	290	400	400
Nb of layers	3	3	3	3	3	3	3	3	3
Maxi. Drum capacity m	56	56	56	56	56	56	56	56	56
1st layer drum capacity m	16	16	16	16	16	16	16	16	16
Wire rope Ø mm	5	5	5	5	5	5	5	5	5
Speed m/min	9.4	15.4	23	9.4	15.4	23	46.6	9.4	15.4
FEM	1Am	1Am	1Am	1Am	1Am	1Am	1Am	1Bm	1Bm
Motor kW	0.75	0.75	1.1	0.75	0.75	1.1	2.2	0.75	1.1
Power	1 Ph 230V	1 Ph 230V	1 Ph 230V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	1 Ph 230V	1 Ph 230V
Weight (without wire rope) kg	49	49	51	49	49	51	59	49	51

References	TRBOXTER 353			TRBOXTER 501	TRBOXTER 503		
	BT9	BT14	BT26	BT11	BT4	BT11	BT21
Capacity top layer kg	350	350	350	500	500	500	500
Capacity 1st layer kg	400	400	400	600	600	600	600
Nb of layers	3	3	3	3	3	3	3
Maxi. Drum capacity m	56	56	56	42	42	42	42
1st layer drum capacity m	16	16	16	12	12	12	12
Wire rope Ø mm	5	5	5	7	7	7	7
Speed m/min	9.4	15.4	29.8	12.2	4.9	12.2	24.2
FEM	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm
Motor kW	0.75	1.1	2.2	1.1	0.75	1.1	2.2
Power	3 Ph 400V	3 Ph 400V	3 Ph 400V	1 Ph 230V	3 Ph 400V	3 Ph 400V	3 Ph 400V
Weight (without wire rope) kg	49	51	59	51	49	51	59

References	TRBOXTER 603					TRBOXTER 803			
	BT5	BT10	BT15	BT20	BT30	BT5	BT10	BT13	BT17
Capacity top layer kg	600	600	600	600	600	800	800	800	800
Capacity 1st layer kg	750	750	750	750	750	950	950	950	950
Nb of layers	4	4	4	4	4	3	3	3	3
Maxi. Drum capacity m	93	93	93	93	93	59	59	59	59
1st layer drum capacity m	19	19	19	19	19	16.5	16.5	16.5	16.5
Wire rope Ø mm	7	7	7	7	7	8	8	8	8
Speed m/min	6	11	18.6	22.5	31.9	5.2	10.3	14.3	17.8
FEM	1Am	1Am	1Am	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm
Motor kW	0.75	1.1	2.2	3	4	1.1	2.2	3	4
Power	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V
Weight (without wire rope) kg	88	101	100	104	107	92	100	104	107

The wire rope diameter corresponds to the capacity on the top layer with a safety coefficient of (about) 5 when lifting with non-rotating wire rope. Long drum models : drum length and wire rope capacity x 1.5.





References	TRBOXTER 993				TRBOXTER 1503	
	BT5	BT10	BT13	BT17	BT4	BT9
Capacity top layer kg	990	990	990	990	1500	1500
Capacity 1st layer kg	1 200	1 100	990	990	1 500	1 500
Nb of layers	3	2	1	1	1	1
Maxi. Drum capacity m	53	34	14.5	14.5	11.5	11.5
1st layer drum capacity m	14.5	14.5	14.5	14.5	11.5	11.5
Wire rope Ø mm	9	9	9	9	11.5	11.5
Speed m/min	5.3	10.6	12.1	15.1	4.4	8.8
FEM	1Bm	1Bm	1Bm	1Cm	1Bm	1Cm
Motor kW	1.1	2.2	3	4	1.5	3
Power	3 Ph - 400V	3 Ph - 400V	3 Ph - 400V	3 Ph - 400V	3 Ph - 400V	3 Ph - 400V
Weight (without wire rope) kg	92	100	104	107	101	104

Technical characteristics TRBoxter

Very low voltage control, speed variation models (VV)

References	TRBOXTER 251				TRBOXTER 253				
	VV9	VV14	VV21	VV43	VV9	VV14	VV21	VV43	VV60
Capacity top layer kg	250	250	250	250	250	250	250	250	250
Capacity 1st layer kg	290	290	290	290	290	290	290	290	290
Nb of layers	3	3	3	3	3	3	3	3	3
Maxi. Drum capacity m	56	56	56	56	56	56	56	56	56
1st layer drum capacity m	16	16	16	16	16	16	16	16	16
Wire rope Ø mm	5	5	5	5	5	5	5	5	5
Speed m/min	0.9-9	1.4-14	2.1-21	4.3-43	0.9-9	1.4-14	2.1-21	4.3-43	6-60
FEM	1Am	1Am	1Am	1Am	1Am	1Am	1Am	1Am	1Am
Motor kW	0.75	0.75	1.1	2.2	0.75	0.75	1.1	2.2	3
Power	1 Ph 230V	1 Ph 230V	1 Ph 230V	1 Ph 230V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V
Weight (without wire rope) kg	50	50	54	62	50	50	54	62	66

References	TRBOXTER 351			TRBOXTER 353				TRBOXTER 501		
	VV9	VV14	VV26	VV9	VV14	VV26	VV42	VV4	VV11	VV21
Capacity top layer kg	350	350	350	350	350	350	350	500	500	500
Capacity 1st layer kg	400	400	400	400	400	400	400	600	600	600
Nb of layers	3	3	3	3	3	3	3	3	3	3
Maxi. Drum capacity m	56	56	56	56	56	56	56	42	42	42
1st layer drum capacity m	16	16	16	16	16	16	16	12	12	12
Wire rope Ø mm	5	5	5	5	5	5	5	7	7	7
Speed m/min	0.9-9	1.4-14	3-30	0.9-9	1.4-14	3-30	4.2-42	0.5-5	1.1-11	2.2-22
FEM	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm	1Bm
Motor kW	0.75	1.1	2.2	0.75	1.1	2.2	3	0.75	1.1	2.2
Power	1 Ph 230V	1 Ph 230V	1 Ph 230V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	1 Ph 230V	1 Ph 230V	1 Ph 230V
Weight (without wire rope) kg	50	54	62	50	54	62	66	50	54	62

The wire rope diameter corresponds to the capacity on the top layer with a safety coefficient of (about) 5 when lifting with non-rotating wire rope. Long drum models : drum length and wire rope capacity x 1.5.





References	TRBOXTER 503				TRBOXTER 601		TRBOXTER 603				
	VV4	VV11	VV21	VV32	VV5	VV10	VV5	VV10	VV15	VV20	VV30
Capacity top layer kg	500	500	500	500	600	600	600	600	600	600	600
Capacity 1st layer kg	600	600	600	600	750	750	750	750	750	750	750
Nb of layers	3	3	3	3	4	4	4	4	4	4	4
Maxi. Drum capacity m	42	42	42	42	93	93	93	93	93	93	93
1st layer drum capacity m	12	12	12	12	19	19	19	19	19	19	19
Wire rope Ø mm	7	7	7	7	7	7	7	7	7	7	7
Speed m/min	0.5-5	1.1-11	2.2-22	3.2-32	0.6-6	1.1-11	0.6-6	1.1-11	1.9-19	2.2-22	3.2-32
FEM	1Bm	1Bm	1Bm	1Bm	1Am	1Am	1Am	1Am	1Am	1Am	1Am
Motor kW	0.75	1.1	2.2	3	0.75	1.5	0.75	1.5	2.2	3	4
Power	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	1 Ph 230V	1 Ph 230V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V
Weight (without wire rope) kg	50	54	62	66	88	101	88	101	100	104	107

References	TRBOXTER 801	TRBOXTER 803				TRBOXTER 991
	VV5	VV5	VV10	VV13	VV17	VV5
Capacity top layer kg	800	800	800	800	800	990
Capacity 1st layer kg	950	950	950	950	950	1 200
Nb of layers	3	3	3	3	3	3
Maxi. Drum capacity m	59	59	59	59	59	53
1st layer drum capacity m	16.5	16.5	16.5	16.5	16.5	16.5
Wire rope Ø mm	8	8	8	8	8	9
Speed m/min	0.5-5	0.5-5	1-10	1.4-14	1.7-17	0.5-5
FEM	1Bm	1Bm	1Bm	1Bm	1Cm	1Bm
Motor kW	1.1	1.1	2.2	3	4	1.1
Power	1 Ph - 230V	3 Ph - 400V	3 Ph - 400V	3 Ph - 400V	3 Ph - 400V	1 Ph - 230V
Weight (without wire rope) kg	92	92	100	104	107	92

References	TRBOXTER 993				TRBOXTER 1501	TRBOXTER 1503	
	VV5	VV10	VV13	VV17	VV4	VV4	VV9
Capacity top layer kg	990	990	990	990	1 500	1 500	1 500
Capacity 1st layer kg	1 200	1 100	990	990	1 500	1 500	1 500
Nb of layers	3	2	1	1	1	1	1
Maxi. Drum capacity m	53	34	14.5	14.5	11.5	11.5	11.5
1st layer drum capacity m	14.5	14.5	14.5	14.5	11.5	11.5	11.5
Wire rope Ø mm	9	9	9	9	11,5	11,5	11,5
Speed m/min	0.5-5	1-10	1.2-12	1.5-15	0.4-4	0.4-4	0.9-9
FEM	1Bm	1Bm	1Bm	1Cm	1Bm	1Bm	1Cm
Motor kW	1.1	2.2	3	4	1.5	1.5	3
Power	3 Ph 400V	3 Ph 400V	3 Ph 400V	3 Ph 400V	1 Ph 230V	3 Ph 400V	3 Ph 400V
Weight (without wire rope) kg	92	100	104	107	101	101	104

The wire rope diameter corresponds to the capacity on the top layer with a safety coefficient of (about) 5 when lifting with non-rotating wire rope.
Long drum models: drum length and wire rope capacity x 1.5.

