2016



HUCHEZ - 2016

Winches
Lifting and Pulling

HUCHEZ

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" WELCOME
to a world of quality "



By opening this catalogue, you are entering a world of quality:
· **Quality of R&D** working to design and develop the products and solutions intended to satisfy market needs and anticipate how they will evolve over time.
· **Quality of products** incorporating components and production processes that have been the cornerstone of our brand's reputation for more than 60 years.
· **Quality of service** founded on the commitment of our employees and partners who will accompany you throughout our relationship.

A priority for our company, the objective of which is purely our customers' satisfaction and the safety of our users.
The products that you will discover here satisfy the needs of a wide range of trades in sectors of activity that are equally as important and in which we are constantly improving our knowledge.
This catalogue is also a point of access to the field of tailor-made solutions with HUCHEZ Engineering. Thus it offers winch solutions for specific uses ranging from the simple to the highly complex around the world.

Welcome to our world.



Antoine Huchez
President

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The MANIBOX VS and GR winches, the TRB, TRBoxter, MANISTOR, PRIMO and TIREX winches are registered designs in all countries.
The information concerning the design, layout, materials and dimensions indicated in this catalogue are for information purposes only.
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WINCHES, LIFTING AND PULLING



THE EXPERIENCE OF A MANUFACTURER

HUCHEZ is above all, a family company that has maintained, since 1950 a tight control of its technical and commercial development and has taken a turning toward modernization under the best possible conditions. HUCHEZ controls every step of the winch production in its workshops located in France.

DESIGN | MACHINING | ASSEMBLY | TESTING



membre du cisma

ISO 9001

All our products and their notices are shown on our website

www.huchez.fr





PRODUCT DESIGN AND DEVELOPMENT

To stay tuned to the requirements, quality and price requests of its customers, HUCHEZ offers them:

. On-going research for new products

. Product design expertise

Its in-house design office is fitted out with the latest tools (3 D, ergonomics and quick prototyping).



QUALITY AND ENDURANCE - AN ADDED SERVICE FACTOR

Winches are inspected at every stage of manufacture.
Every electric winch is tested on the test bench to ensure the reliability of its components and endurance - the keys to the reputation of the HUCHEZ winches.
Winches are then dispatched along with their test sheet and user manual enabling their owners to start them up, check and maintain them in keeping within the applicable regulations.



THE SPECIALIST ADVICE

Our team is at your disposal to bring you the technical advice to guide you to the best matched appliance for your project.
Our team is trained on a permanent basis to address the requirement of the new safety regulations in the world of lifting and help you out in this particularly complex field.
Do not hesitate to contact us; we are here to help you!

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SHOW-BUSINESS INDUSTRY

Over the years, HUCHEZ has developed and designed manual and electric winches adapted to the entertainment world. These winches are used to manipulate, position accurately and safely any kind of stage or theater equipment (sound elements, lighting, sets, chandeliers...).

Many years of experience in different sectors supporting your projects

MINES AND QUARRIES

Well-known for their manufacturing quality and solid construction, HUCHEZ winches are regularly chosen to tension conveyor belts which are necessary to move materials over large distances (aggregates, minerals, etc.), to lift counterweights before working on them, or even to adjust the height of the arms of these conveyors.









BUILDING

HUCHEZ offers winches for all kinds of applications: Lifting materials on renovation sites, hoists, etc.



PUBLIC WORKS

For many years, HUCHEZ has supplied to well-known companies in public works (motorway construction, works of art, etc.) both in France and abroad.

For these construction sites, HUCHEZ is even able to offer adapted solutions using standard equipment with capacities up to several dozen of tons.



Many years of experience in different sectors supporting your projects

INDUSTRY

In order to meet the highest demands of manufacturers in the aeronautical, automobile and food industries, HUCHEZ offers winches, jib cranes and gantry cranes adapted to multiple applications: Lifting or pulling loads, production lines layout, etc.











OFFSHORE, MARITIME AND RIVER TRANSPORT, PORT SECTOR

HUCHEZ designs, develops not only winches but also capstans which are used in shipyards... for mooring operations and traction of marine barges, boats, rakes...

Hydraulic, manual or electric, HUCHEZ winches have a long list of options (ATEX certification, specific surface protections...) complying with the constraints of the harsh environment in which they are used.





Many years of experience in different sectors supporting your projects



ENERGY, ENVIRONMENT

Electric or nuclear power plants, wind power energy, hydroelectric dams are all sectors in which you can find HUCHEZ winches for the opening and closing of valves or gates, lifting loads during maintenance operations...

PERSONNEL LIFTING

Lifting people requires the use of an appropriate and certified equipment. SECURITREUIL, mobile well Inspection crane or solution specially designed by HUCHEZ Engineering, HUCHEZ has the required expertise to design and manufacture these equipment.



LIFTING ON GREAT HEIGHTS

With its big capacities electric winches ranges, HUCHEZ answers to customer requests in lifting and pulling/towing on long distances applications.

For these applications, HUCHEZ continues to innovate with the recent design of an INDUSTRIA winch equipped with an integrated electric trolley mounted on a bracket allowing both to translate and lift loads to a height of 100 m.



Feel free to share your projects with us!

Winches


1


2

3

Winches

1. MANIBOX VS – Separating motorway lanes.

2. TRBoxter – Moving a trolley during maintenance operations on a production line.

3. TE – Conveyor belt tensioning.

HOW TO CHOOSE A WINCH?

HAND WINCHES

Duty factor : Light Medium High

Lifting		Capacity	Pulling	
	TIREX p. 16	Up to 500 kg		TIREX p. 16
	MANIBOX GR p. 18			MANIBOX GR p. 18
	MANIBOX VS p. 20			MANIBOX VS p. 20
	631.AFL/AFLX p. 22			631.N p. 24
	MANISTOR p. 23			
	MANIBOX GR p. 18	From 500 kg to 10 t		MANIBOX GR p. 18
	MANIBOX VS p. 20			MANIBOX VS p. 20
	631 AFL/AFLX p. 22			631.N p. 24
				THB p. 24
				659 p. 25

PORTABLE MINI-WINCH

Duty factor : Light Medium High Very high

Lifting		Capacity	Pulling	
	PULLEY-MAN p. 26	Up to 300 kg		PULLEY-MAN p. 26

ELECTRIC WINCHES

Duty factor : ϟ Light ϟϟ Medium ϟϟϟ High ϟϟϟϟ Very high

Lifting			Capacity	Pulling		
	MOTORBOX	p. 28 ϟ	Up to 300 kg		MOTORBOX	p. 28 ϟ
	PRIMO	p. 30 ϟ			PRIMO	p. 30 ϟ
	TRBoxter	p. 32 ϟϟϟ			TRBoxter	p. 32 ϟϟϟ
	GS 250 /GS 250 on trailer	p. 76 ϟϟϟ				
	SECURITREUIL	p. 62 ϟϟ				
	MOTORBOX	p. 28 ϟ	From 300 kg to 990 kg		MOTORBOX	p. 28 ϟ
	PRIMO	p. 30 ϟϟ			PRIMO	p. 30 ϟϟ
	TRBoxter	p. 32 ϟϟϟ			TRBoxter	p. 32 ϟϟϟ
	TE	p. 44 ϟϟϟ			PL	p. 52 ϟϟϟϟ
	PL	p. 52 ϟϟϟϟ				
	PRIMO	p. 30 ϟϟ	From 1000 kg (load limiter obligatory)		PRIMO	p. 30 ϟϟ
	TRBoxter	p. 32 ϟϟϟ			TRBoxter	p. 32 ϟϟϟ
	INDUSTRIA	p. 40 ϟϟϟ			INDUSTRIA	p. 40 ϟϟϟ
	TE	p. 44 ϟϟϟ			TT	p. 48 ϟϟϟ
	PL	p. 52 ϟϟϟϟ			PL	p. 52 ϟϟϟϟ

HAND SPURGEAR WINCH TIREX 150 AND 300 KG

CE – Comply with Machines Directive 2006/42/EC. Developped and manufactured in accordance with standard NF E N 13157.

- Flat position
- Indoor - Outdoor
- Trailers, masts
- Lifting doors
- Opening of traps…

Technical properties

- A new generation, compact winch taking advantage of the qualities of composite materials and aluminium, especially their anti-corrosion properties.
- Easy to wind. Planetary reducer in a sealed casing.
- Disengageable drum, no load only, associated with a failsafe system in the rope wind direction (patented).
- Zinc-plated steel (standard model) or stainless steel mounting plate.
- Automatic brake.
- Stainless steel spring and pawls.
- Removable crank.
- Ergonomically and comfortably shaped crank grip.
- Many possibilities of wire rope exit (over 250°).
- High force/compact and density ratio.
- Operating temperature between -10°C and +50°C.



Tirex

Strong points













A. Accessible, very safe self-tightening rope attachment.

B. Maximum safety: 2 ratchets.

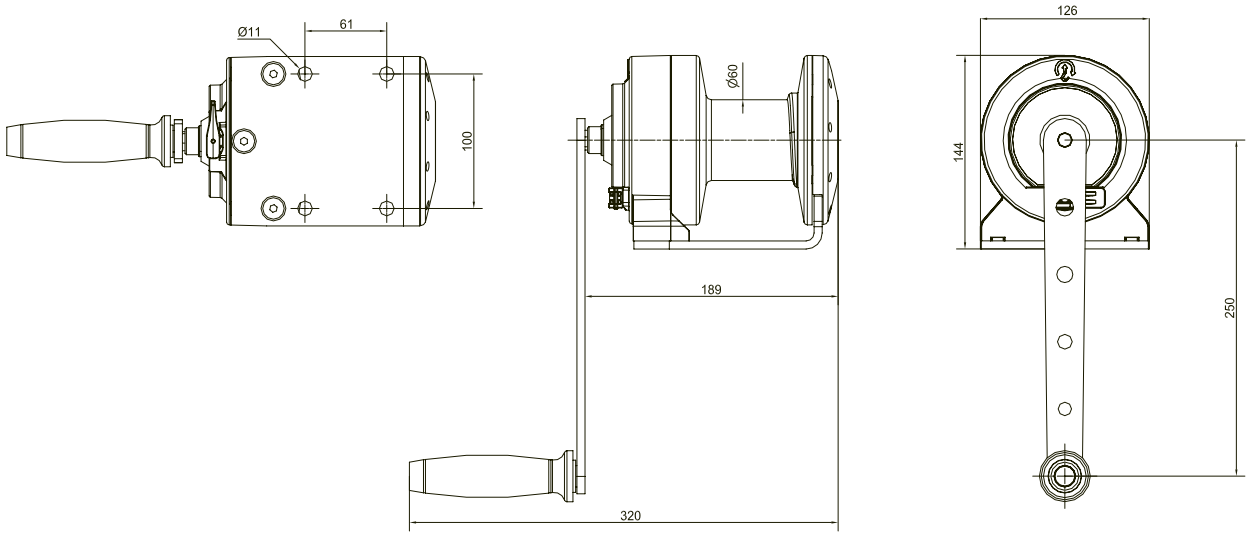
C. Clutch release impossible when loaded.

D. « Soft touch » ergonomic crank grip in two materials.

E. Rope guide for correct winding.

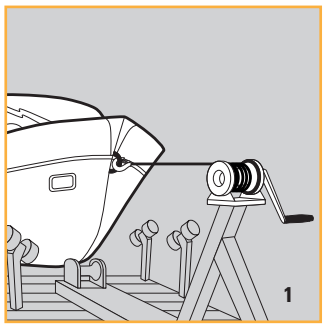
F. Gear system with satellite pinions offering excellent mechanical balance and reducing the effort required on the crank.

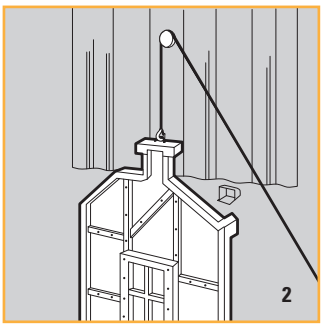
Dimensions



Dimensions mm.

Applications











1.Moving a boat.

2.Handling scenery.

3.Tirex installed on a loading arm.

4.Installation of a grounding mast for a SNCF cradle.

5.Tirex installed on a anchor bracket. Lifting material.

Technical characteristics

References	TIREX 150	TIREX 300
Capacity 1st layer kg	**250**	**400**
Capacity top layer kg	150	300
Nb of layers	6	3
Wire rope cap. 1st layer m*	2.5	2
Wire rope cap. top layer m*	24	8.5
Wire rope Ø mm	4	5
Lift per crank revolution mm	40	41
Max. hand force on crank kg	8	14
Weight (without rope) kg	3.7	3.7

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.78-81).

HAND SPURGEAR WINCHES MANIBOX GR 300 TO 2,750 KG

CE – Comply with Machines Directive 2006/42/EC. Developped and manufactured in accordance with standard NF E N 13157.

- Position: wall-mounted (GR 300, GR 530 and GR 500) or flat.
- Industry
- Auditoriums, theatre scenery
- Water treatment, water dams
- Transport: trailers, barges
- Sports rooms
- Hanging chandeliers...

Technical properties

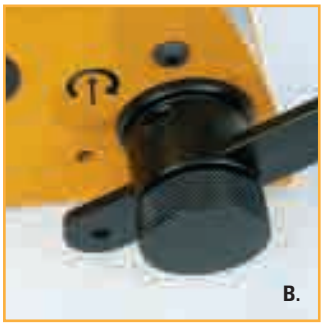
- Mechanical parts machined and protected by cataphoresis.
- Stainless steel ratchet spring.
- Straight-cut gears.
- Automatic brake made of composite materials.
- Reduction system fully protected by a metal or plastic cover providing maximum safety.
- Disengageable drum, no load only, associated with a failsafe system in the rope wind direction (patented).
- Ergonomic and removable crank handle with rotating grip. This crank arm can be adjusted to minimise effort according to the loads.
- Finition: painted frame, galvanized or stainless steel.

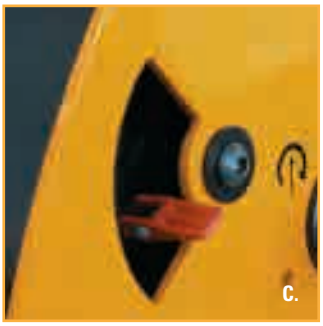


GR 500

Strong points













A. Automatic brake with ratchet and stainless steel spring offering optimum proof for this type of winch.

B. Captive crank adjusting knob.

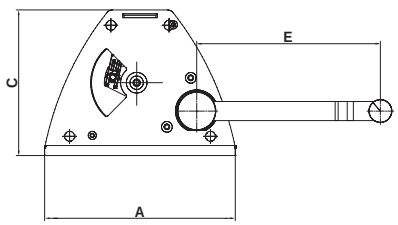
C. Freespooling, using a release catch, allows quick rope pay out. Does not operate under load.

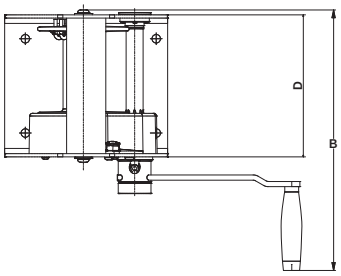
D. Highly reliable rope fastener, not requiring any special tool. With rope winding direction polarizer.

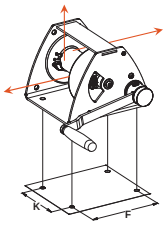
E. Adjustable crank handle for fast winding or otherwise, maximum capacity.

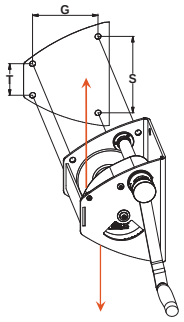
F. Stainless steel frame available.

Dimensions









Models	GR 300	GR 530	GR 500	GR 750	GR 1000	GR 1450	GR 2000	GR 2750
A mm	249	249	249	249	410	410	510	510
B mm	400	400	400	400	485	485	585	585
C mm	190	190	190	190	305	305	360	360
D mm	217	217	217	217	300	300	400	400
E mm	240	240	240	240	340	340	340	340
F mm	200	200	200	200	370	370	440	440
G mm	145	145	145	-	-	-	-	-
K mm	144	144	144	144	236	236	325	325
S mm	184	184	184	-	-	-	-	-
T mm	76	76	76	-	-	-	-	-

Applications









1.Installing a reel on a specific trailer.
2.Lifting a sluice gate.
3.Positioning rolls of paper on a workstation.
4.Lifting of the tar loading arm (ATEX area).

Technical characteristics

References	GR 300	GR 530	GR 500	GR 750	GR 1000	GR 1450	GR 2000	GR 2750
Capacity 1st layer kg	**500**	**530**	**750**	**750**	**1450**	**1450**	**2750**	**2750**
Capacity top layer kg	300	530	500	750	1000	1450	2000	2750
Nb of layers	6	1	4	1	4	1	3	1
Wire rope cap. 1st layer m*	4	4	3	3	5.5	5	6	6
Wire rope cap. top layer m*	38	4	18	3	30	5	25	6
Wire rope Ø mm	5	6	7	7	9	10	13	13
Lift per crank revolution mm	30.5	30.5	31.5	31.5	16	16	9.5	9.5
Max. hand force on crank kg	12.5	12.5	19	19	14.5	14.5	16.5	16.5
Weight (without wire rope) kg	15	15	15	15	44	44	83	83

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.78-81).

HAND WORMGEAR WINCHES MANIBOX VS 250 TO 3,500 KG

CE – Comply with Machines Directive 2006/42/EC. Developped and manufactured in accordance with standard NF E N 13157.

- Position: flat or wall-mounted
- Industry
- Shows, sceneries
- Water treatment, water dams
- Sports rooms
- Hanging chandeliers...

Technical properties

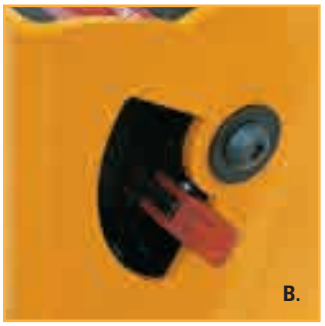
- Absolute safety by wormgear reduction + automatic brake.
- Stainless steel ratchet spring.
- Mechanical parts machined and protected by cataphoresis.
- Covers over mechanical parts.
- Disengageable drum, no load only, associated with a failsafe system in the rope wind direction (except on VS 250/320) (patented).
- Ergonomic and removable crank with rotating grip. This crank arm can be adjusted to minimise effort according to the loads.
- Crank positioned on the left (VS 250/320, 500/750 and 3000/3500) or on the right (VS 1000/1450, 1500/2000, 2000/2500).
- Finition: painted frame, galvanized or stainless steel.



VS 500

Strong points







A. Absolute safety: worm screw and automatic brake.

B. Disengageable drum (except on VS 250/320).

C. Captive crank adjusting knob.

D. Highly reliable rope fastener, not requiring any special tool.

E. Adjustable crank handle for fast winding or otherwise, maximum capacity.

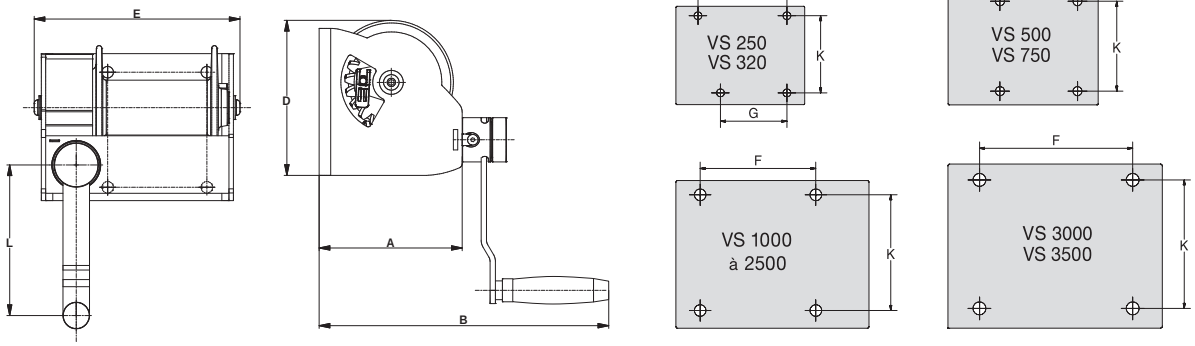
F. Galvanized frame available.







Dimensions



Models	VS 250	VS 320	VS 500	VS 750	VS 1000	VS 1450	VS 1500	VS 2000	VS 2000	VS 2500	VS 3000	VS 3500
A mm	140	140	162	162	302	302	350	350	356	356	480	480
B mm	307	307	325	325	470	470	518	518	520	520	640	640
D mm	142	142	175	175	302	302	330	330	390	390	450	450
E mm	206	206	233	233	322	322	370	370	420	420	530	530
F mm	130	130	112	112	167	167	200	200	260	260	390	390
G mm	95	95	-	-	-	-	-	-	-	-	-	-
K mm	100	100	130	130	250	250	250	250	295	295	380	380
L mm	240	240	240	240	340	340	340	340	340	340	340	340

Applications









1.Conveyor belt tensioning.
2.Lifting molds in the industry.
3.Lifting a sluicegate.
4.Special winch for stage equipment.

Technical characteristics

References	VS 250	VS 320	VS 500	VS 750	VS 1000	VS 1450	VS 1500	VS 2000	VS 2000	VS 2500	VS 3000	VS 3500
Capacity 1st layer kg	**380**	**380**	**750**	**750**	**1450**	**1450**	**2000**	**2000**	**2500**	**2500**	**3500**	**3500**
Capacity top layer kg	250	320	500	750	1000	1450	1500	2000	2000	2500	3000	3500
Nb of layers	4	2	4	1	4	1	3	1	2	1	2	1
Wire rope cap. 1st layer m*	2.5	2.5	3	3	5.5	5	5.5	5.5	7	7	7.5	7.5
Wire rope cap. top layer m*	15	6	18	3	30	5	23	6	17	6	18.5	7.5
Wire rope Ø mm	5	6	7	7	9	10	11.5	12	13	13	16	16
Lift per crank revolution mm	17	17	11	11	8	8	6	6	5	5	3	3
Max. hand force on crank kg	11	11	14	14	14	14	14	14	14.5	14.5	15	15
Weight (without wire rope) kg	7.5	7.5	12	12	37.5	37.5	52	52	80	80	140	140

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.78-81).

SELF-BRAKED WINCHES 80 TO 490 KG

CE - Comply with standard NF 13157.
Comply with Machines Directive 2006/42/EC.

STANDARD > ref. 631. AFL
INOX > ref. 631. AFLX

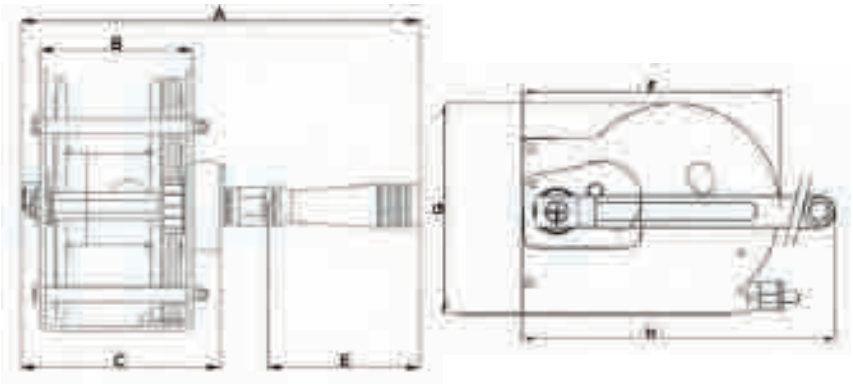
- Occasional use or leisure.
- Light trailer (quad, lawn tractor)
- Small lifting height (small chandeliers…)



Technical properties

- Compact.
- Zinc protection.
- Automatic brake.
- To use with steel ropes.
- Stainless steel model available (ref. "X", for chemical industry…).

Dimensions



Inox ref. 631. AFLX

Models	4 AFLM	4 AFLMX	4 AFL	4 AFLX	6 AFL	6 AFLX	8 AFL	8 AFLX	12 AFL	12 AFLX
A mm	211	211	250	245	265	265	265	270	294	294
B mm	50	50	90.5	88.5	99	99	100	100	119.5	119.5
C mm	78	78	117	117	132	132	132	130	155	155
E mm	100	100	100	96	100	100	100	100	100	100
F mm	126	126	128	128	161	165	200	200	214	214
G mm	96	96	96	96	128	130	167	167	170	170
H mm	195	195	197	202	240	232	290	290	295	295

Technical characteristics

References	4 AFLM	4 AFLMX	4 AFL	4 AFLX	6 AFL	6 AFLX	8 AFL	8 AFLX	12 AFL	12 AFLX
Capacity 1st layer kg	**190**		**340**		**500**		**650**		**900**	
Capacity top layer kg	80		190		240		270		490	
Wire rope cap. top layer m	8		10		12		19		12	
Wire rope Ø mm	3		4		5		6		7	
Weight (without wire rope) kg	2.2	2.2	2.7	2.8	3.7	4.4	5.5	5.2	7.4	7.6

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.78-81).

CE - Comply with standard NF 13157
Comply with Machines Directive 2006/42/EC.

MANUAL WALL WINCHES MANISTOR 100 AND 200 KG

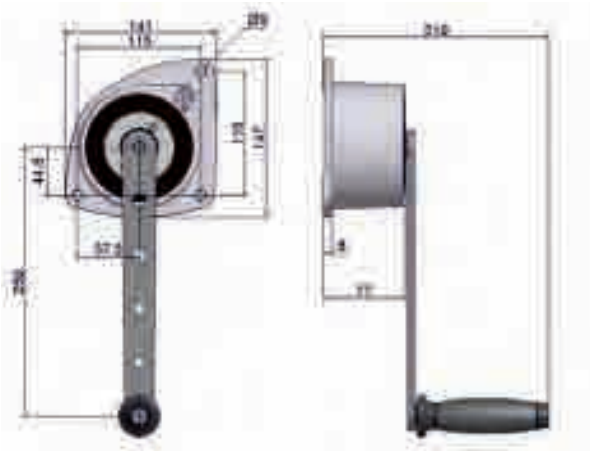
- Wall-mounted position
- Sports halls
- Shows
- Stage equipment
- Industry



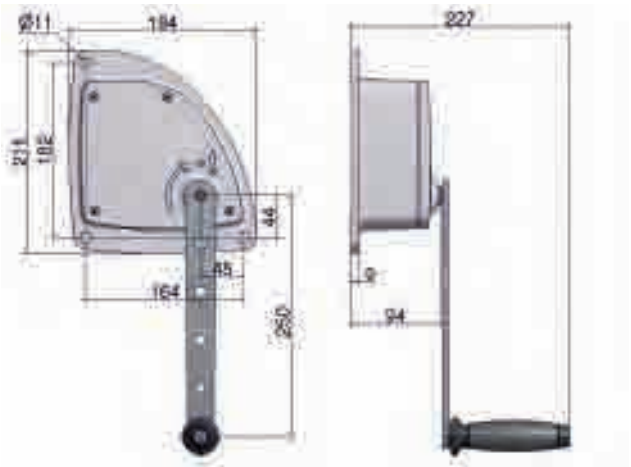
Technical properties

- Ergonomic for user comfort.
- Designed for outdoor work.
- Light and small, easy to install.
- Aluminium structure.
- Mechanical parts with anti-corrosion treatment.
- Polymer drum.
- Automatic brake.
- Removable handle, two material handle, pleasant to use.
- Back-stop system.
- 3 attachment points.

Dimensions



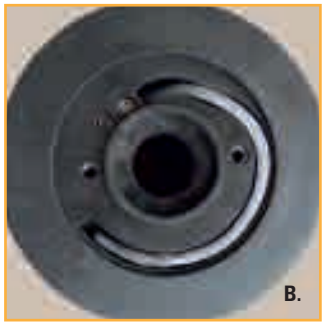
Manistor 100
Dimensions mm.

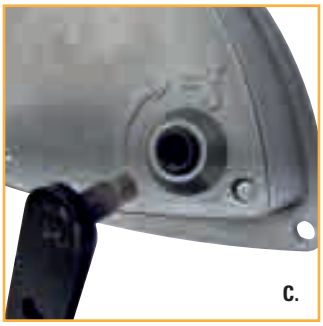


Manistor 200
Dimensions mm.

Strong points







A. Two ratchets for maximum safety.

B. Very safe rope clamp with two pressure screws.

C. Snap-fitting removable handle.

Technical characteristics

References	MANISTOR 100	MANISTOR 200
Capacity 1st layer kg	**150**	**300**
Capacity top layer kg	100	200
Nb of layers	5	4
Wire rope cap. 1st layer m	1.5	1
Wire rope cap. top layer m	10	6.5
Wire rope Ø mm	3	4
Lift per crank revolution mm	153	50
Max. hand force on crank kg	18	12
Weight (without wire rope) kg	1.9	3

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.78-81).

PULLING WINCHES FROM 470 TO 2,700 KG > ref. 631. N

· Occasional use or leisure (boat trailers…).
· Tensioning of cables or nets.



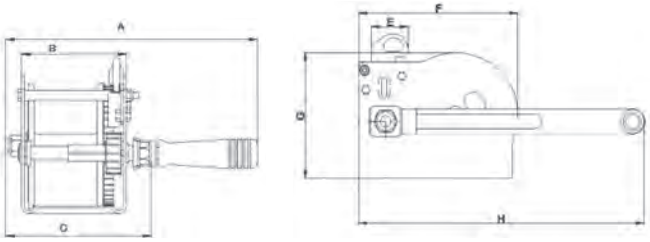
631.N

Technical properties

· Zinc protection.
· Holding and disengaging ratchet.
· Compact.
· To use with steel ropes.
· Holding brake for heavy load (ref. « F »).

Dimensions

	3N1	5N1	7N1	9N1	16N2F	25N3F
A mm	230	240	242	270	290	345
B mm	90	99	100	120	120	163
C mm	130	140	142	165	175	230
E mm	38	38	38	38	38	38
F mm	125	161	200	214	214	265
G mm	100	127	166	171	171	190
H mm	200	240	240	253	312	348



Technical characteristics

References	3N1	5N1	7N1	9N1	16N2F	25N3F
Pulling capacity (slope of 0%) kg	470	596	723	894	1556	2741
Wire rope cap. maxi. m*	13	10	14	16	10	13
Wire rope Ø mm	4	6	7	7	8	9
Weight (without wire rope) kg	2	3	4.6	6	7.8	13.1

The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 3 when pulling with non-rotating rope.
*Rope and hook extra (see p.78-81).

PULLING WINCHES FOR 4 T BARGES (10 T FOR HOLDING) > ref. THB

· Anchorage of barges together for river sailing or mooring at dock



THB

Technical properties

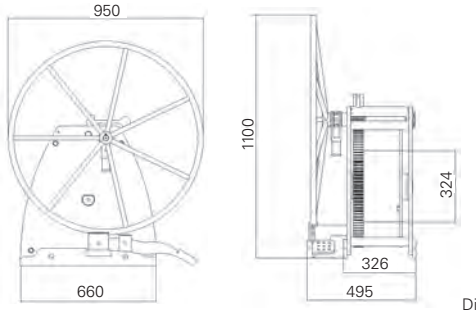
· Very rugged mechanical construction.
· Steel chassis and drum.
· Straight cut gearing, high tensile steel.
· Drum and shafts mounted on self-lubricated bearings.
· Operated by right hand or left hand wheel.
· Retaining ratchet.
· Lever-operated locking ratchet.
· Pedal brake acting directly on hand wheel.

Technical characteristics

References	THB
Capacity 1st layer kg	**5100**
Capacity top layer kg	4000
Nb of layers	4
Wire rope cap. 1st layer m*	7.5
Wire rope cap. top layer m*	46
Wire rope Ø mm	16
Travel/hand wheel revolution mm	150
Weight (without wire rope) kg	250

The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 3 when pulling with non-rotating rope.
* Rope and hook extra (see p.78-81).

Dimensions



Dimensions mm

PULLING CRAB WINCHES, GEAR TYPE 600 KG TO 10 T

> ref. 659

- Anchorage and movement of barges, boats…
- Pulling of vehicles, wagons, vessels…
- Doors manoeuvring
- Pulling work requiring long lengths of rope



1500 kg

Technical properties

- Steel chassis and drum.
- Straight cut gearing, high tensile steel.
- Rugged and tested mechanical construction.
- Manual band brake (lever or wheel).
- 2 speeds, disengageable (except on 600 kg model).
- Large rope capacities.
- Standard crank handle, manoeuvring hand wheel and marine painting as an option.

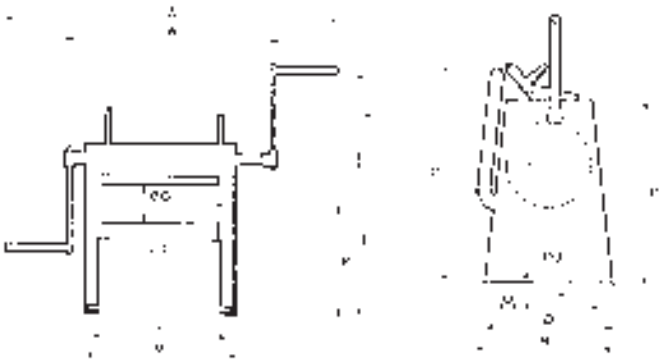
Strong points



A. Hand wheel as option.

Dimensions

Models	600	1500	2000	3000	5000	7500	10000
A mm	1235	1322	1415	1800	2260	2455	2920
B mm	715	802	895	995	1200	1370	1845
E mm	460	524	580	677	798	990	1565
F mm	310	330	320	380	400	540	600
Ø G mm	133	133	168	168	245	324	355
H mm	360	360	360	480	406	406	406
Ø J mm	15	20,5	20,5	22	24	28	20,5
L mm	605	680	660	707	775	900	882
M mm	515	580	645	745	880	1080	1665
N mm	440	500	520	610	-	-	-
O mm	50	50	100	100	140	140	250
P mm	645	705	720	780	850	960	1000
Lg mm	400	450	500	600	710	900	1100



Applications







1. Pulling of grids on dam.

2. Setting up a floating antipollution boom.

3. Pulling of barges on a tourist site.

Technical characteristics

References	600	1500	2000	3000	5000	7500	10000
Capacity 1st layer kg	**900**	**2000**	**2900**	**4100**	**7500**	**11000**	
Capacity top layer kg	600	1500	2000	3000	5000	7500	
Nb of layers	8	4	5	4	5	6	
Wire rope cap. 1st layer m*	32	23	25	27	33	50	On request
Wire rope cap. top layer m*	346	112	169	138	223	403	
Wire rope Ø mm	5	8	10	11.5	16	18	
Travel/crank revolution mm	88.5	90	78	88	44	40	
Weight (without wire rope) kg	70	85	110	170	360	550	

The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 3 when pulling with non-rotating rope.
* Rope and hook extra (see p.78-81).

PULLEY MAN PORTABLE MINI-WINCH 300 KG

- Light work: maintenance, upkeep, repairs, fitting, installations, small sites, agriculture, first aid…
- Mechanized gardening
- Quad
- DIY

Technical properties

- Can be used with all screwdrivers, cordless or not.
- Easy to set up: suspension hook.
- Small size.
- Light.
- Works in all positions.
- Cable length:
  - unlimited in traction,
  - limited to 50 m in lifting (beyond 12 m, loss of 10% of lifting force per 10 m section).
- Automatic load maintenance system (patented self-braking brake reducer).
- Supplied as standard with 12 m of cable (aviation type ø 4.76 mm galvanized steel cable).
- Pulley block to double the load as option:
  - lifting capacity for loads: 600 kg on two falls.
  - haulage capacity for loads on wheels: from 900 to 3000 kg on two falls depending on the slope.
- New: Optional wall support.

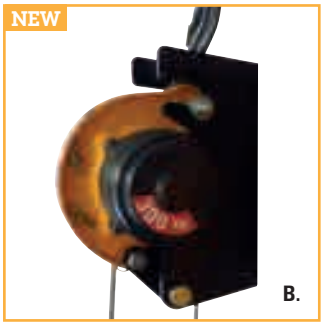


Ref. PULLEY MAN
Its motor: your screw driver or drill!

Strong points



A.

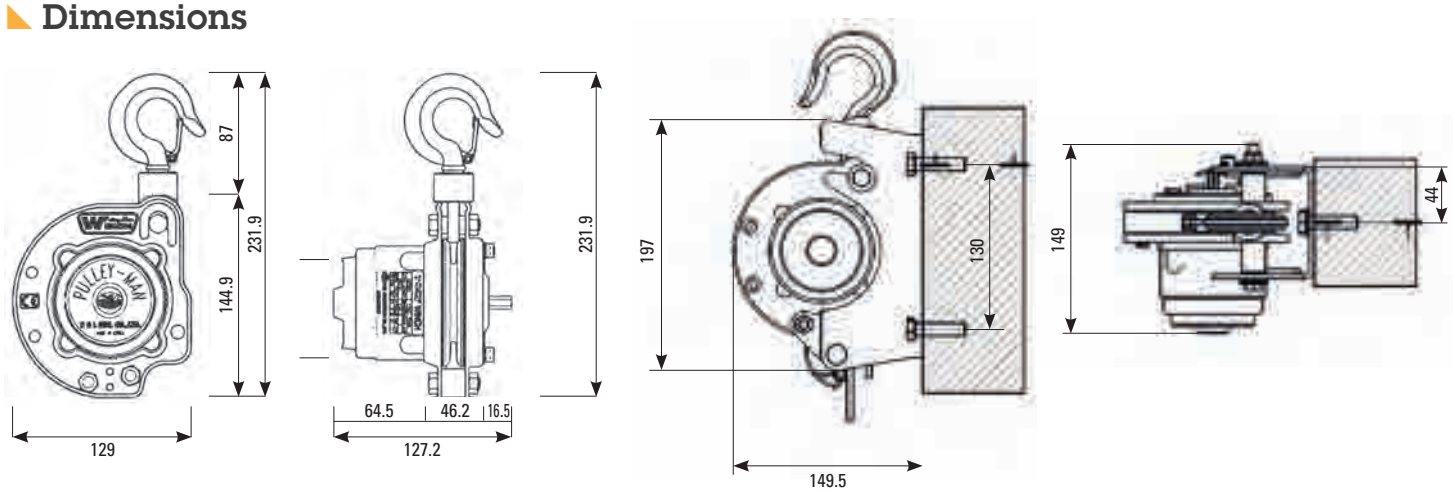


B.

A. Complete kit composed by a case, a winch, a drill, a charger, a sling and two shackles. Easy to transport.

B. Wall support optional.

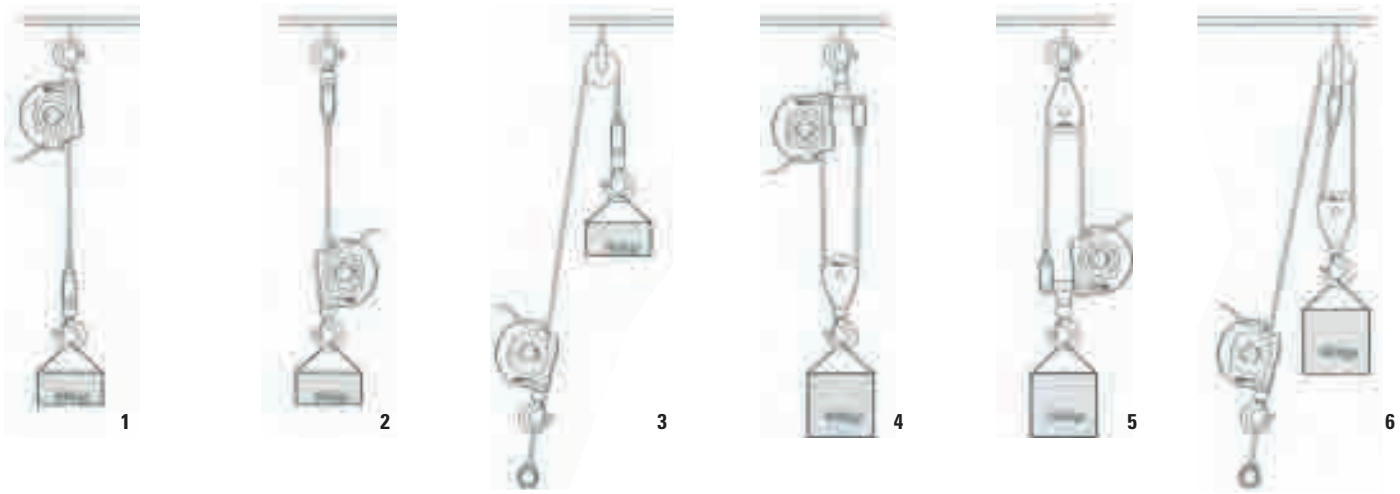
Dimensions



Dimensions mm.

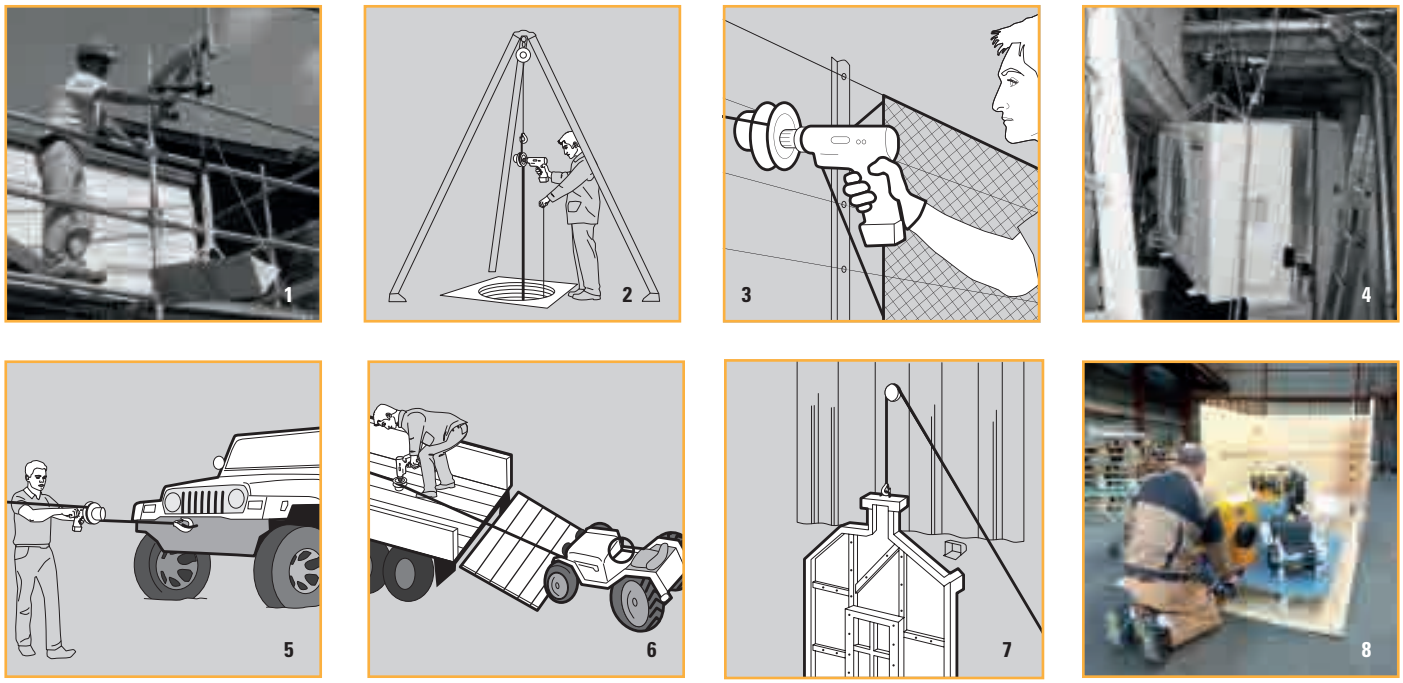
Wall support optional.

Fastening methods



1. Single fall – Winch at the top
2. Single fall – Winch at the bottom
3. Single fall – Winch in the middle
4. Double fall - Winch at the top
5. Double fall - Winch at the bottom
6. Double fall – Winch in the middle

Applications



1. Pulling a vehicle.
2. Lifting a load above a well.
3. Tautening wire fencing.
4. Lifting loads in the workshop.
5. Towing a vehicle.
6. Pulling a trailer.
7. Handling scenery.
8. Handling of heavy loads.

Technical characteristics

Reference	Pulley-man
Lifting capacity kg	**300**
Haulage capacity for loads on wheels kg (with a slope of 6°/12°/16°/27°/30°)	1500/975/825/585/450
Wire rope Ø mm*	4.76
Weight (with 12 m of wire rope and hook) kg	7.5

* 12 m of cable and hook included.

ELECTRIC WINCHES MOTORBOX® FROM 150 TO 500 KG

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

NEW

- An electric winch designed for simple lifting and pulling operations, the ideal solution to replace a manual winch.
- Occasional use.
- Maintenance (chandeliers…).
- Moving doors or hatches…

Technical properties

- Direct control (to use only with weather protection).
- Mechanical parts machined and protected by cataphoresis.
- Mechanical welded steel drum.
- Reducer in oil bath with helical gear.
- Reduction system fully protected by a metal or plastic cover providing maximum safety.
- Same attachments as the MANIBOX GR 150, 300 and 500 kg.
- Single phase 230 V motor brake with permanent capacitor – 50 Hz lifting type. Class F. Protection IP 44 (MOTORBOX 150) or IP 54 (MOTORBOX 300 and 500).
- Up-down control unit with emergency stop, cable 2 m long.
- Limit switches as standard.
- Motor power adapted to all uses, even domestic use.



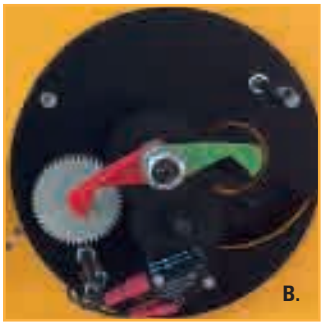
Motorbox 500 kg



Motorbox 150 kg

Strong points









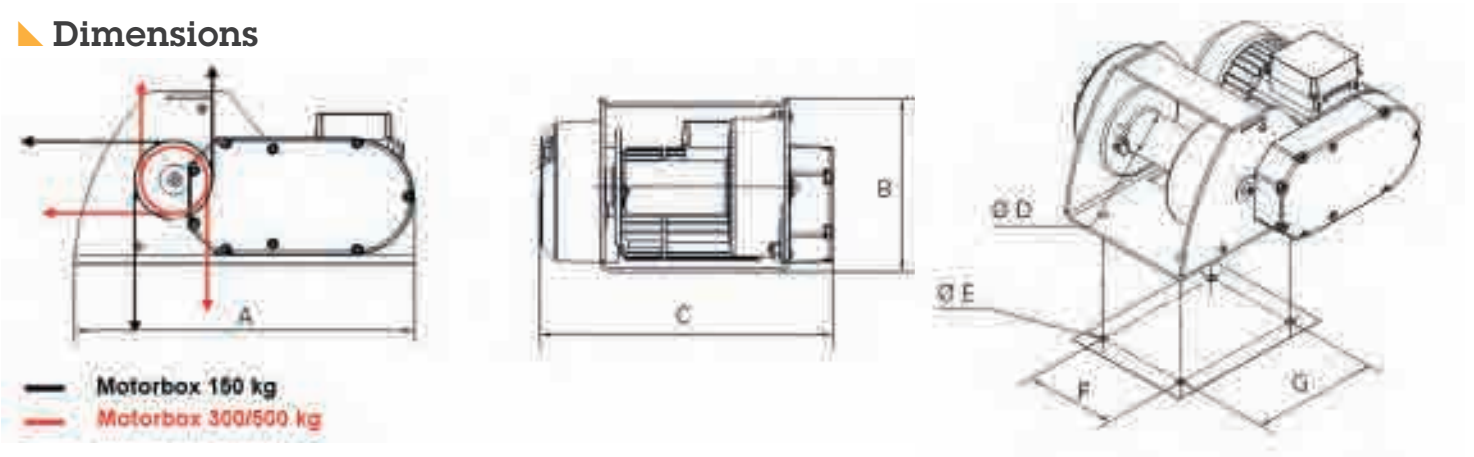
A. The motorised manual winch helps reduce musculo-skeletal disorders (MSD). This is the ideal solution to replace a manual winch at a reasonable cost!

B. Limit switch very easy to adjust and extremely reliable, made especially by HUCHEZ.

C. Same attachments as the MANIBOX GR 150, 300 and 500 kg winches in order to facilitate its replacement.

D. MOTORBOX 150 kg. Very compact.

Dimensions



Models	Motorbox 150	Motorbox 300	Motorbox 500
A mm	310	390	390
B mm	185	205	205
C mm	285	340	340
Ø D mm	54	62	62
Ø E mm	9	13	13
F mm	114	144	144
G mm	154	200	200

Applications



1.Opening a door.



2.Pulling a plate on a press.

Technical characteristics

References	Motorbox 150 CD 6	Motorbox 300 CD 5	Motorbox 500 CD 3
Capacity 1st layer kg	**150**	**300**	**500**
Capacity top layer kg	150	300	500
Nb of layers	3	3	3
Wire rope cap. 1st layer m*	4	4	4
Wire rope cap. top layer m*	15	16	13.5
Wire rope Ø mm	4	5	6
Speed 1st layer m/mn	5.5	4.6	2.6
Speed top layer m/mn	7	5.9	3.6
FEM	1Dm	1Dm	1Dm
Motor kW	0.25	0.37	0.37
Power	1Ph-230 V	1Ph - 230 V	1Ph - 230 V
Weight (without wire rope) kg	14	27	27

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. 78-81).

PRIMO FROM 300 TO 2,000 KG ECONOMICAL RANGE

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

- A range of electric winches designed for simple lifting and pulling operations, subject to the same quality standards as the TRBoxter range.
- Intermediate operating factor
- Boat hauling
- Lifting doors, hatches, etc.
- Freight lifts
- Swimming pool roofs

Technical properties

- 2 versions:
  - direct control, used only with weather protection,
  - or low voltage control, assuring user protection against electric risks.
- Steel rigid structure.
- Up-down pendant control with emergency stop, cable 3 m long.
- Single phase 230 V motor brake with permanent capacitor - 50 Hz lifting type, P = 0.75 or 1.1 kW depending on the models. Class F. IP 54 protection.
- Three-phase 230/400 V motor brake - 50 Hz lifting type, P = 0.75 – 1.1 or 2.2 kW depending on the models. Class F. IP 54 protection.
- Reducer in oil bath with helical gears.
- Mechanical welded steel drum with wide flanges allowing a secure fastening of the wire rope.
- Limit switch as standard (except three-phase CD-Direct control for which the limit switch will have to be incorporated to the installation, or the choice will be given to a low voltage model BT).
- Rope-press roller and grooved drum as option.



Primo 500 kg CD



Primo 2,000 kg BT

Strong points





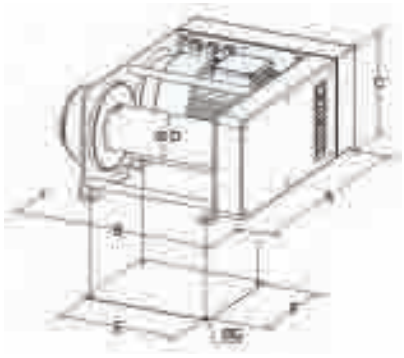


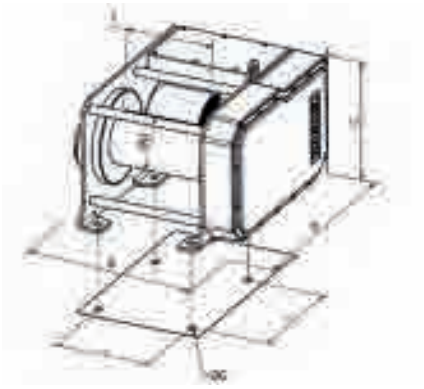
A. Limit switch as standard (except three-phase CD). Very easy to adjust and extremely reliable, made specially by HUCHEZ.

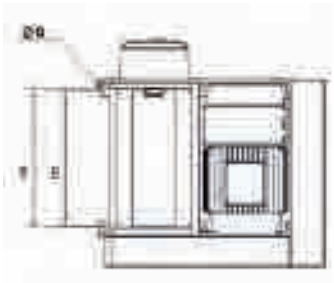
B. Optional rope-press roller.

C. Optional grooved drum.

Dimensions



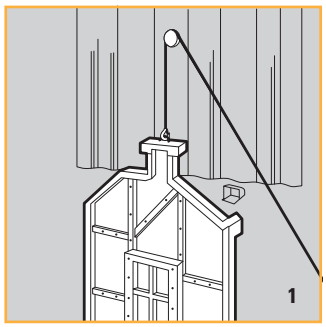




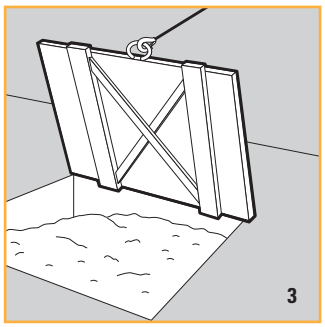
Models	PRIMO CD 300 KG	PRIMO BT 300 KG	PRIMO CD 500 KG	PRIMO BT 500 KG	PRIMO CD-BT 1000 KG	PRIMO BT 2000 KG
A mm	420	476	420	476	610	610
B mm	422 (2)	422	430 (2)	430	565	565
C mm	216	216	216	216	390	390
Ø D mm	89	89	95	95	152	152
E mm	250	250	250	250	292	292
F mm	214 (3)	214 (3)	214 (3)	214 (3)	350	350
Ø G mm	9	9	9	9	22	22
T mm	257	257	257	257	312	312

(2) On the three-phase version (no limit switch), dimension B is 352 mm. (3) 2 fixation holes are available at half length, i.e. 107mm.

Applications









1.Handling scenery.
2.Pulling concrete formwork on a construction site.
3.Lifting hatches.
4.Moving of the covers on a water treatment plant.

Technical characteristics

References	PRIMO 301		PRIMO 303		PRIMO 501		PRIMO 503		PRIMO 1001		PRIMO 1003	PRIMO 2003
	CD	BT	CD	BT	CD	BT	CD	BT	CD	BT	BT	BT
Capacity 1st layer kg	**360**		**360**		**630**		**630**		**990**	**1300**	**1300**	**2500**
Capacity top layer kg	300		300		500		500		990	1000	1000	2000
Nb of layers	3		3		3		3		4		4	3
Wire rope cap. 1st layer m*	13		13		10		10		17		17	12
Wire rope cap. top layer m*	48		48		38		38		86		86	45
Wire rope Ø mm	5		5		7		7		8		8	11.5
Speed 1st layer m/mn	7.5		7.5		8.6		8.6		4		4	4
Speed top layer. m/mn	9.1		9.1		11		11		5.2		5.2	5.2
FEM	1Bm		1Bm		1 Cm		1 Cm		1Bm		1Bm	1 Cm
Motor kW	0.75		0.75		1.1		1.1		1.1		1.1	2.2
Power	1 Ph - 230 V		3 Ph - 230/400 V		1 Ph - 230 V		3 Ph - 230/400 V		1 Ph - 230 V		3 Ph - 230/400 V	3 Ph - 230/400 V
Weight (without wire rope) kg	35		35		40		40		150	152	152	160

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. 78-81). **Electronic load limiter obligatory from 1000 Kg winch capacity for pulling and lifting.

TRBOXTER COMPACT WINCHES FROM 250 TO 1,500 KG

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

NEW

- Multifunctional electric winch offering many rope attachments, rope outlets and options.
- Robust and compact, it benefits of a high operating factor.
- Industry.
- Building and public works.
- Theatre applications.
- Integration into many types of devices, cranes, etc.
- Pulling carriages or wagons with a two-way system.
- Installation and extraction of parts in ovens.
- Hanging chandeliers.
- Boat haulage.
- Doors lifting, traps opening.
- Material lifts.
- Swimming pool roofs…



TRBoxter 500 kg, model with direct control (CD)

Technical properties

MODELS WITH DIRECT CONTROL FROM 250 TO 990 KG (CD)

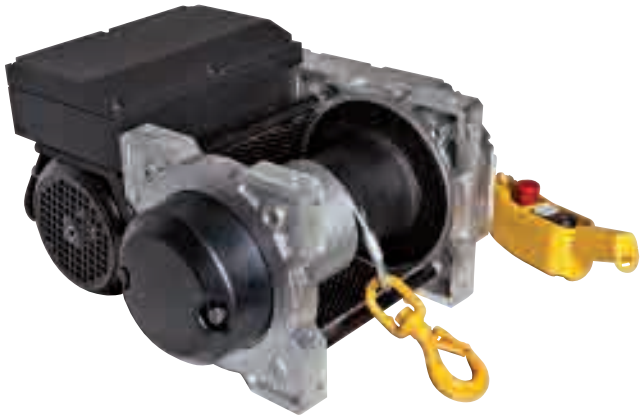
- Welded steel drum.
- Aluminium casing.
- The direct control is used only with weather protection.
- Asynchronous, single phase motors (230 V – 50 Hz P=0.75 or 1.1 kW depending on the models) or three-phase motors (230/400 V – 50 Hz P= 0.75 or 1.1 kW depending on the models).
- Reducer sealed in oil bath with helical gears.
- Conical brake incorporated into the motor.
- 230 V single/380 V three-phase remote control, IP 65 protection.
- The optional limit switch is only available on single phase models. For three-phase models, it has to be incorporated into the installation otherwise choice will go to a low voltage model.
- Fixation points identical to the TRB model allowing old TRB to be replaced.



TRBoxter 990 kg, model with direct control (CD)

LOW VOLTAGE CONTROL FROM 250 TO 1,500 KG – MODELS WITH 1 SPEED (BT)

- Welded steel drum.
- Aluminium casing.
- The low voltage control protects the user from electrical risks. It makes it possible to operate a wide range of options : from limit switch to radio control, including a load limiter and a rope slack switch…
- Asynchronous, single phase motors (230 V – 50 Hz P=0.75 – 1.1 – 1.5 kW depending on the models) or three-phase motors (230/400 V – 50 Hz P= 0.75 – 1.1 – 1.5 – 2.2 - 3 - 4 – 5.5 kW depending on the models).
- Reducer sealed in oil bath with helical gears.
- 24 V or 190 V direct current electromagnetic brake (depending on the models).
- Electrical equipment under sealed cover.
- Very low voltage, 24 V remote control with socket – IP 65 protection.
- Fixation points identical to the TRB model allowing old TRB to be replaced.



TRBoxter 500 kg, model with 1 speed (BT)

LOW VOLTAGE CONTROL FROM 250 TO 1,500 KG – MODELS WITH FREQUENCY INVERTER (VV)

- Welded steel drum.
- Aluminium casing.
- The low voltage control protects the user from electrical risks. It makes it possible to operate a wide range of options : from limit switch to radio control, including a load limiter and a rope slack switch…
- In addition to the low voltage advantages, the not disconnectable pendant control offers a variation of the winding speed, with gradual starting and stopping.
- Highly advisable for industry, building and public works, theatre applications…
- Asynchronous three-phase motors (230/400 V – 50 Hz P= 0.75 – 1.1 – 1.5 – 2.2 - 3 - 4 – 5.5 kW depending on the models).
- Reducer sealed in oil bath with helical gears.
- 190 V direct current electromagnetic brake (depending on the models).
- Electrical equipment under sealed cover.
- Very low voltage, 24 V remote control with socket – IP 65 protection.
- Fixation points identical to the TRB model allowing old TRB to be replaced.

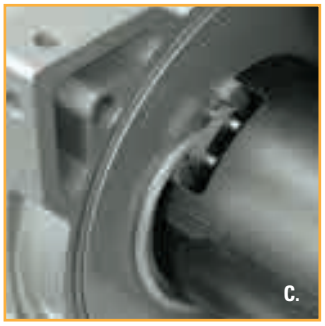


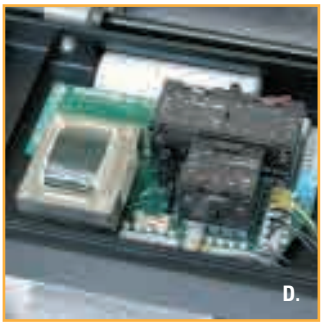
TRBoxter 1,500 kg, model with frequency inverter for speed variation (VV)

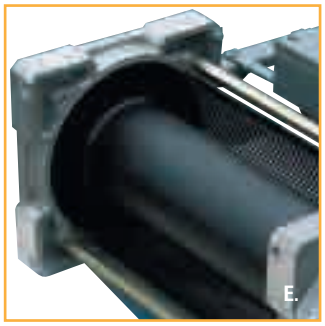
Strong points

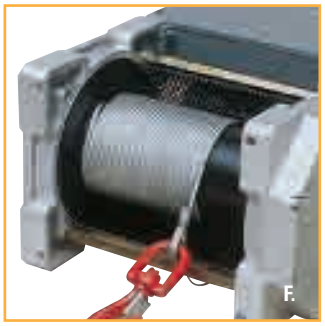












A. Electromagnetic no-current disk brake (VV and BT models).

B. Drum protected by perforated plate, adjustable according to the outlet of the rope. Large flanges for a large rope capacity.

C. Reliable and very safe cable clamp. Caged nut for winch multi-position fixing.

D. Reliable electric components (VV and BT models).

E. Lengthened drum models: standard length of drum (T) and rope capacity x 1.5.

F. Fixation points identical to the TRB model allowing old TRB to be replaced.

Applications

















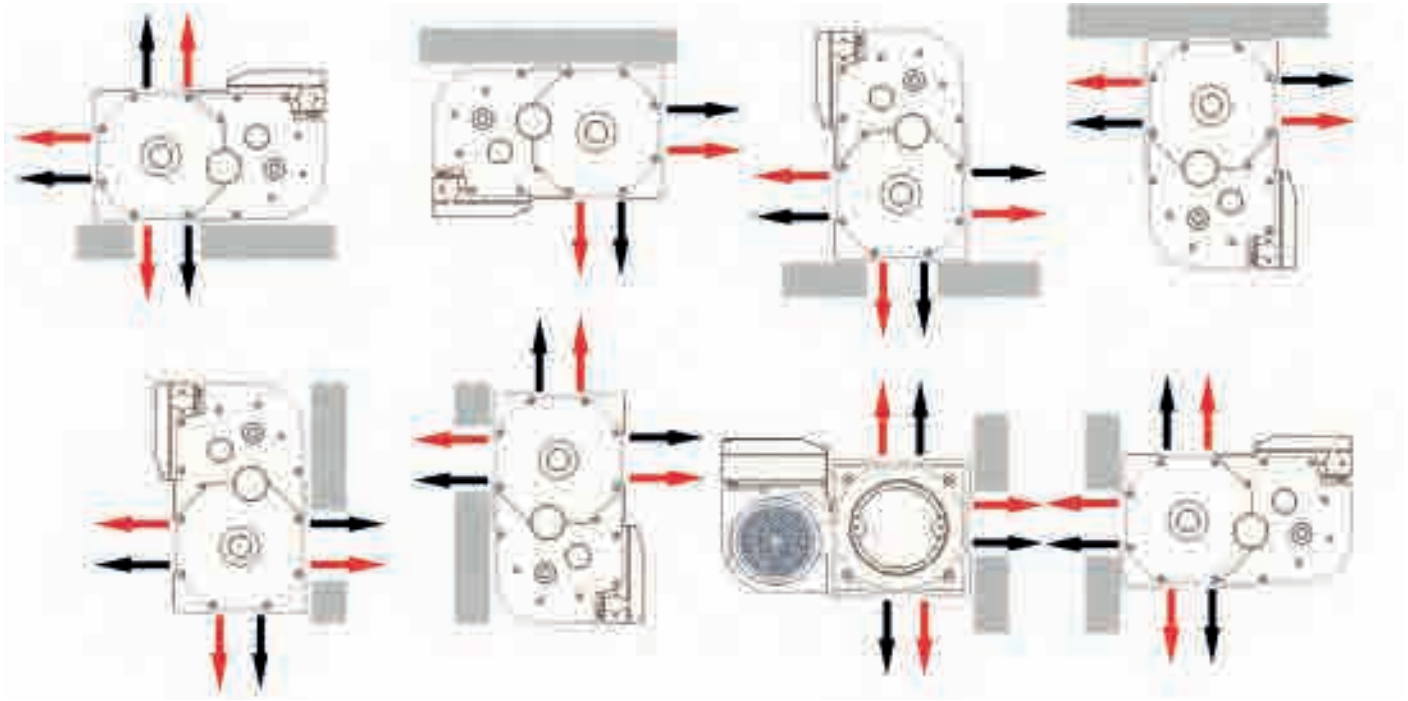




1. Material lift.
2. Fitted for lateral moving use.
3. Ceiling fixation.
4. Goods lift.
5. Theatre sceneries.
6. Lifting display panels.
7. Handling chandeliers.

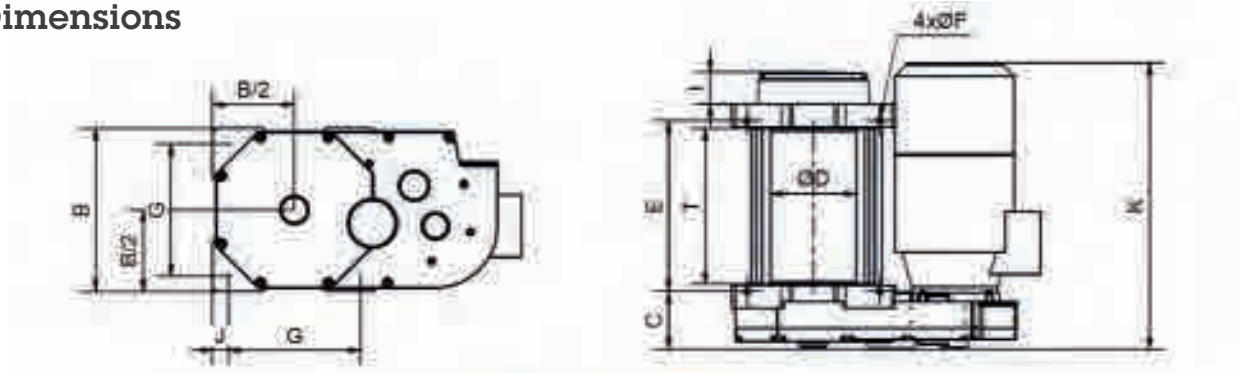
8. Trolley moving on a conveyor belt to clean rollers during maintenance operations.
9. Barge loading.
10. Printing rollers manipulation.

Rope outlets

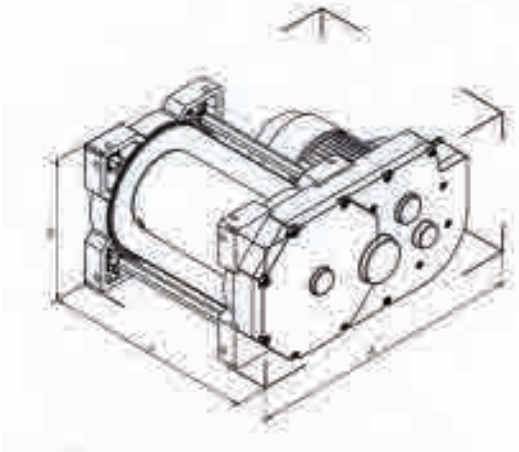


Standard outlet, right hand lay rope.
Non standard outlet, left hand lay rope.

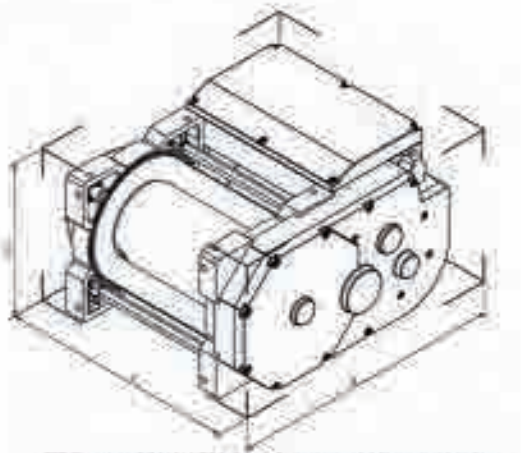
Dimensions



TRBoxter from 250 to 1,500 kg – All models



TRBoxter from 250 to 990 kg – Direct control



TRBoxter from 250 to 1,500 kg – Low voltage control

> DIRECT CONTROL

Models	TRBOXTER 250 to 500		TRBOXTER 600 to 990	
	Standard	Long	Standard	Long
A mm	According to motors, see table.			
B mm	243	243	304	304
C mm	79	79	107.5	107.5
Ø D mm	121	121	159	159
E mm	255	370	318	463
Ø F mm	10.5	10.5	12.5	12.5
G mm	197	197	246	246
H mm	According to motors, see table.			
I mm	68	68	62	62
J mm	23	23	29	29
K mm	356	471	387.5	387.5
L mm	According to motors, see table.			
M mm	121.5	121.5	152	152
N mm	121.5	121.5	152	152
T mm	230	345	290	435

	TRBOXTER 250 to 500					
	Standard			Long		
Motor kW	A mm	L (without/with limit switch) mm	H mm	A mm	L (without/with limit switch) mm	H mm
0.75	451	356 / 421	243	451	468 / 533	243
1.1	462	356 / 421	243	462	468 / 533	243

	TRBOXTER 600 to 990					
	Standard			Long		
Motor kW	A mm	L (without/with limit switch) mm	H mm	A mm	L (without/with limit switch) mm	H mm
0.75	540	456 / 516	304	540	601 / 661	304
1.1	540	456 / 516	304	540	601 / 661	304

> LOW VOLTAGE CONTROL – MODELS WITH 1 SPEED

Models	TRBOXTER 250 to 500		TRBOXTER 600 to 1,500	
	Standard	Long	Standard	Long
A mm	According to motors, see table.			
B mm	243	243	304	304
C mm	79	79	107.5	107.5
Ø D mm	121	121	159	159
E mm	255	255	318	463
Ø F mm	10.5	10.5	12.5	12.5
G mm	197	197	246	246
H mm	According to motors, see table.			
I mm	68	68	62	62
J mm	23	23	29	29
K mm	356	471	495.5	495.5
L mm	According to motors, see table.			
M mm	121.5	121.5	152	152
N mm	121.5	121.5	152	152
T mm	230	345	290	435

	TRBOXTER 250 to 500					
	Standard			Long		
Motor kW	A mm	L (without/with limit switch) mm	H mm	A mm	L (without/with limit switch) mm	H mm
0.75	451	356 / 421	284.5	451	468 / 533	284.5
1.1	462	356 / 421	284.5	462	468 / 533	284.5
2.2	473	487.5 / 487.5	306.5	473	468 / 533	306.5

	TRBOXTER 600 to 1,500					
	Standard			Long		
Motor kW	A mm	L (without/with limit switch) mm	H mm	A mm	L (without/with limit switch) mm	H mm
0.75	535.5	456 / 516	332.5	535.5	601 / 661	332.5
1.1	543	456 / 516	332.5	543	601 / 661	332.5
1.5	541	456 / 516	332.5	541	601 / 661	332.5
2.2	554	507 / 516	332.5	554	601 / 661	332.5
3	558	511 / 516	332.5	558	601 / 661	332.5
4	558	533 / 533	332.5	558	601 / 661	332.5

> LOW VOLTAGE CONTROL – MODELS WITH FREQUENCY INVERTER

Models	TRBOXTER 250 to 500		TRBOXTER 600 to 1,500	
	Standard	Long	Standard	Long
A mm	According to motors, see table.			
B mm	243	243	304	304
C mm	79	79	107.5	107.5
Ø D mm	121	121	159	159
E mm	255	370	318	463
Ø F mm	10.5	10.5	12.5	12.5
G mm	197	197	246	246
H mm	According to motors, see table.			
I mm	68	68	62	62
J mm	23	23	29	29
K mm	356	471	495.5	495.5
L mm	According to motors, see table.			
M mm	121.5	121.5	152	152
N mm	121.5	121.5	152	152
T mm	230	345	290	435

	TRBOXTER 250 to 500					
	Standard			Long		
Motor kW	A mm	L (without/with limit switch) mm	H mm	A mm	L (without/with limit switch) mm	H mm
0.75	475	356 / 421	345	475	468 / 533	345
1.1	475	356 / 421	345	475	468 / 533	345
2.2	475	488 / 487.5	345	475	468 / 533	345
3	477	488 / 488	345	475	468 / 533	345

	TRBOXTER 600 to 1,500					
	Standard			Long		
Motor kW	A mm	L (without/with limit switch) mm	H mm	A mm	L (without/with limit switch) mm	H mm
0.75	574	456 / 516	391	574	601 / 661	391
1.1	574	456 / 516	391	574	601 / 661	391
1.5	574	456 / 516	391	574	601 / 661	391
2.2	574	495.5 / 516	391	574	601 / 661	391
3	574	511 / 516	391	574	601 / 661	391
4	574	533 / 533	449	574	601 / 661	449

Technical characteristics – Direct control

References	TRBOXTER 251			TRBOXTER 253			TRBOXTER 351		TRBOXTER 353	
	CD9	CD14	CD21	CD9	CD14	CD21	CD9	CD14	CD9	CD14
Capacity 1st layer kg		**290**			**290**			**400**		**400**
Capacity top layer kg		250			250			350		350
Nb of layers		3			3			3		3
Wire rope cap. 1st layer m* **		16			16			16		16
Wire rope cap. top layer m* **		56			56			56		56
Wire rope Ø mm		5			5			5		5
Speed 1st layer m/mn	8.1	13.3	19.8	8.1	13.3	19.8	8.1	13.3	8.1	13.3
Speed top layer m/mn	9.4	15.4	23	9.4	15.4	23	9.4	15.4	9.4	15.4
FEM		1Am			1Am			1Bm		1Bm
Motor kW	0.75	0.75	1.1	0.75	0.75	1.1	0.75	1.1	0.75	1.1
Power		1 Ph-230V			3 Ph-230/400V			1 Ph-230V		3 Ph-230/400V
Weight (without wire rope) kg	44	44	48	44	44	48	44	48	44	48

References	TRBOXTER 501	TRBOXTER 503		TRBOXTER 601	TRBOXTER 603
	CD11	CD4	CD11	CD5	CD5
Capacity 1st layer kg	**600**	**600**		**750**	**750**
Capacity top layer kg	500	500		600	600
Nb of layers	3	3		4	4
Wire rope cap. 1st layer m* **	12	12		19	19
Wire rope cap. top layer m* **	42	42		93	93
Wire rope Ø mm	7	7		7	7
Speed 1st layer m/mn	10	4	10	4.8	4.8
Speed top layer m/mn	12.2	4.9	12.2	6	6
FEM	1Bm	1Bm		1Am	1Am
Motor kW	1.1	0.75	1.1	0.75	0.75
Power	1 Ph-230V	3 Ph-230/400V		1Ph-230V	3Ph-230/400V
Weight (without wire rope) kg	48	44	48	88	88

References	TRBOXTER 801	TRBOXTER 803	TRBOXTER 991	TRBOXTER 993
	CD5	CD5	CD5	CD5
Capacity 1st layer kg	**950**	**950**	**1200**	**1200**
Capacity top layer kg	800	800	990	990
Nb of layers	3	3	3	3
Wire rope cap. 1st layer m* **	16.5	16.5	14.5	14.5
Wire rope cap. top layer m* **	59	59	53	53
Wire rope Ø mm	8	8	9	9
Speed 1st layer m/mn	4.3	4.3	4.4	4.4
Speed top layer m/mn	5.2	5.2	5.3	5.3
FEM	1Bm	1Bm	1Bm	1Bm
Motor kW	1.1	1.1	1.1	1.1
Power	1 Ph-230V	3 Ph-230/400V	1Ph-230V	3Ph-230/400V
Weight (without wire rope) kg	92	92	92	92

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. 78-81).
** Lengthened drum models: standard length of drum (T) and rope capacity x 1.5.





CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

Technical characteristics – Low voltage control – Models with 1 speed

References	TRBOXTER 251			TRBOXTER 253				TRBOXTER 351		TRBOXTER 353			TRBOXTER 501
	BT9	BT14	BT21	BT9	BT14	BT21	BT43	BT9	BT14	BT9	BT14	BT26	BT11
Capacity 1st layer kg		**290**			**290**				**400**		**400**		**600**
Capacity top layer kg		250			250				350		350		500
Nb of layers		3			3				3		3		3
Wire rope cap. 1st layer m* **		16			16				16		16		12
Wire rope cap. top layer m* **		56			56				56		56		42
Wire rope Ø mm		5			5				5		5		7
Speed 1st layer m/mn	8.1	13.3	19.8	8.1	13.3	19.8	40.3	8.1	13.3	8.1	13.3	25.7	10
Speed top layer m/mn	9.4	15.4	23	9.4	15.4	23	46.6	9.4	15.4	9.4	15.4	29.8	12.2
FEM		1Am			1Am				1Bm		1Bm		1Bm
Motor kW	0.75	0.75	1.1	0.75	0.75	1.1	2.2	0.75	1.1	0.75	1.1	2.2	1.1
Power		1 Ph-230V			3 Ph-230/400 V				1 Ph-230V		3 Ph-230/400 V		1 Ph-230V
Weight (without wire rope) kg	49	49	51	49	49	51	59	49	51	49	51	59	51

References	TRBOXTER 503			TRBOXTER 601	TRBOXTER 603					TRBOXTER 801
	BT4	BT11	BT21	BT5	BT5	BT10	BT15	BT20	BT30	BT5
Capacity 1st layer kg		**600**		**750**			**750**			**950**
Capacity top layer kg		500		600			600			800
Nb of layers		3		4			4			3
Wire rope cap. 1st layer m* **		12		19			19			16.5
Wire rope cap. top layer m* **		42		93			93			59
Wire rope Ø mm		7		7			7			8
Speed 1st layer m/mn	4	10	20	4.8	4.8	8.8	14.9	17.9	25.5	4.3
Speed top layer m/mn	4.9	12.2	24.2	6	6	11	18.6	22.5	31.9	5.2
FEM		1Bm		1Am			1Am		**1Bm**	1Bm
Motor kW	0.75	1.1	2.2	0.75	0.75	1.5	2.2	3	4	1.1
Power		3 Ph-230/400 V		1 Ph-230V			3 Ph-230/400 V			1 Ph-230 V
Weight (without wire rope) kg	49	51	59	88	88	101	100	104	107	92

References	TRBOXTER 803				TRBOXTER 991	TRBOXTER 993				TRBOXTER 1503	
	BT5	BT10	BT13	BT17	BT5	BT5	BT10	BT13	BT17	BT4	BT9
Capacity 1st layer kg		**950**			**1200**	**1200**	**1100**	**990**	**990**	**1500**	
Capacity top layer kg		800			990		990			1500	
Nb of layers		3			3	3	**2**	**1**	**1**	2	
Wire rope cap. 1st layer m* **		16.5			14.5		14.5			11.5	
Wire rope cap. top layer m* **		59			53	53	**34**	**14.5**	**14.5**	27	
Wire rope Ø mm		8			9		9			11.5	
Speed 1st layer m/mn	4.3	8.7	12	15	4.4	4.4	8.7	12.1	15.1	4.4	8.8
Speed top layer m/mn	5.2	10.3	14.3	17.8	5.3	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	1.1	1.1	2.2	3	4	1.5	3
Power		3 Ph- 230/400 V			1 Ph-230 V		3 Ph- 230/400 V			3 Ph- 230/400 V	
Weight (without wire rope) kg	92	100	104	107	92	92	100	104	107	101	104

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. 78-81). ** Lengthened drum models: standard length of drum (T) and rope capacity x 1.5.

Technical characteristics – Low voltage control – Models with frequency inverter

References	TRBOXTER 251				TRBOXTER 253					TRBOXTER 351			TRBOXTER 353			
	VV9	VV14	VV21	VV43	VV9	VV14	VV21	VV43	VV60	VV9	VV14	VV26	VV9	VV14	VV26	VV42
Capacity 1st layer kg	**290**				**290**					**400**			**400**			
Capacity top layer kg	250				250					350			350			
Nb of layers	3				3					3			3			
Wire rope cap. 1st layer m* **	16				16					16			16			
Wire rope cap. top layer m* **	56				56					56			56			
Wire rope Ø mm	5				5					5			5			
Adjustable speed 1st layer m/mn	0.8-8	1.3-13	2-20	4-40	0.8-8	1.3-13	2-20	4-40	5.1-51	0.8-8	1.3-13	2.6-26	0.8-8	1.3-13	2.6-26	3.9-39
Adjustable speed top layer m/mn	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	0.9-9	1.4-14	3-30	0.9-9	1.4-14	3-30	4.2-42
FEM	1Am				1Am					1Bm			1Bm			
Motor kW	0.75	0.75	1.1	2.2	0.75	0.75	1.1	2.2	3	0.75	1.1	2.2	0.75	1.1	2.2	3
Power	1 Ph-230 V				3 Ph-230/400 V					1 Ph-230 V			3 Ph-230/400 V			
Weight (without wire rope) kg	50	50	54	62	50	50	54	62	66	50	54	62	50	54	62	66

References	TRBOXTER 501			TRBOXTER 503				TRBOXTER 601		TRBOXTER 603					TRBOXTER 801
	VV4	VV11	VV21	VV4	VV11	VV21	VV32	VV5	VV10	VV5	VV10	VV15	VV20	VV30	VV5
Capacity 1st layer kg Capacity	**600**			**600**				**750**			**750**				**950**
top layer kg	500			500				600			600				800
Nb of layers	3			3				4			4				3
Wire rope cap. 1st layer m* **	12			12				19			19				16.5
Wire rope cap. top layer m* **	42			42				93			93				59
Wire rope Ø mm	7			7				7			7				8
Adjustable speed 1st layer m/mn	0.4-4	1-10	2-20	0.4-4	1-10	2-20	2.6-26	0.5-5	0.9-9	0.5-5	0.9-9	1.5-15	1.8-18	2.6-26	0.4-4
Adjustable speed top layer m/mn	0.5-5	1.1-11	2.2-22	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	0.5-5
FEM	1Bm			1Bm				1Am				1Am		**1Bm**	1Bm
Motor kW	0.75	1.1	2.2	0.75	1.1	2.2	3	0.75	1.5	0.75	1.5	2.2	3	4	1.1
Power	1 Ph-230 V			3 Ph-230/400 V				1Ph-230V			3Ph-230/400V				1 Ph-230 V
Weight (without wire rope) kg **P**	50	54	62	50	54	62	66	88	101	88	101	100	104	107	92

References	TRBOXTER 803				TRBOXTER 991		TRBOXTER 993			TRBOXTER 1501	TRBOXTER 1503	
	VV5	VV10	VV13	VV17	VV5	VV5	VV10	VV13	VV17	VV4	VV4	VV9
Capacity 1st layer kg Capacity	**950**				**1200**	**1200**	**1100**	**990**	**990**	**1500**	**1500**	
top layer kg	800				990	990				1500	1500	
Nb of layers	3				3	3	**2**	**1**	**1**	2	2	
Wire rope cap. 1st layer m* **	16.5				14.5	14.5				11.5	11.5	
Wire rope cap. top layer m* **	59				53	53	**34**	**14.5**	**14.5**	**11.5**	**11.5**	
Wire rope Ø mm	8				9	9				11.5	11.5	
Adjustable speed 1st layer m/mn	0.4-4	0.9-9	1.2-12	1.5-15	0.4-4	0.4-4	0.9-9	1.2-12	1.5-15	0.4-4	0.4-4	0.9-9
Adjustable speed top layer m/mn	0.5-5	1-10	1.4-14	1.8-18	0.5-5	0.5-5	1.1-11	1.2-12	1.5-15	0.4-4	0.4-4	0.9-9
FEM	1Bm				1Bm		1Bm		**1Cm**	1Bm	1Cm	
Motor kW	1.1	2.2	3	4	1.1	1.1	2.2	3	4	1.5	1.5	3
Power	3 Ph- 230/400 V				1 Ph-230 V		3 Ph- 230/400 V			1 Ph-230 V	3 Ph- 230/400 V	
Weight (without wire rope) kg	92	100	104	107	92	92	100	104	107	101	101	104

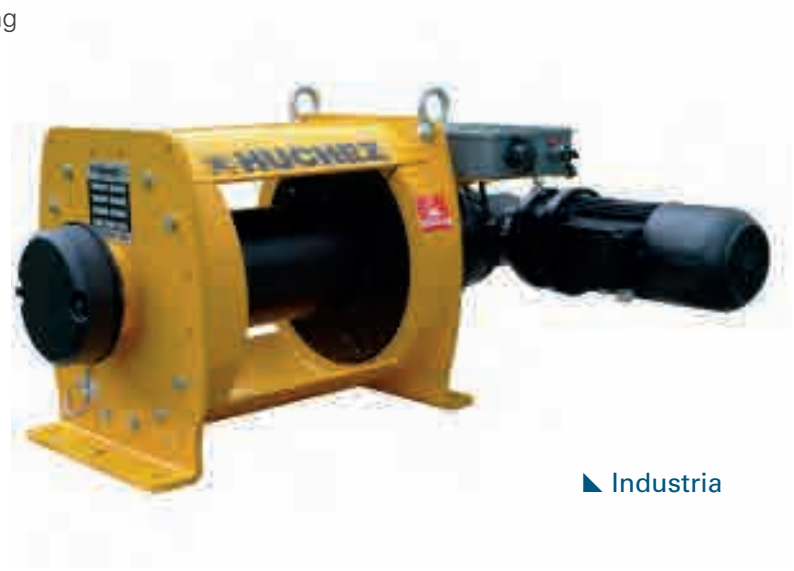
The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 5 when lifting with non-rotating rope.
* Rope and hook extra (see p. 78-81). ** Lengthened drum models: standard length of drum (T) and rope capacity x 1.5.

INDUSTRIA-SERIE 1 TO 10 T

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

NEW

- A 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 t as standard.
- Vertical mounting possible.
- Opening hatches
- Lifting sluice gates
- Pulling heavy loads
- Conveyor belt tensioning…



Industria

Technical properties

LOW VOLTAGE CONTROL - MODELS WITH 1 SPEED

- 230/400 V – 50 Hz three-phase brake motor. Protection IP 55. Other voltages or frequencies optional.
- Range of motors from 1.1 à 9.2 kW.
- Sealed electrical unit on the winch, consisting of:
  - Contactors,
  - 24 V transformers,
  - Thermal circuit breaker,
  - Disconnectable pendant control with 3 m of cable.
- Rope-press roller and rope slack switch incorporated into the tie-rod as an option.
- Reduced-maintenance planetary reduction gears.
- Motor position: horizontal (possibility of vertical on request).
- Numerous rope outlet possibilities and options.

LOW VOLTAGE CONTROL – MODELS WITH FREQUENCY INVERTER

- Smooth starting and stopping.
- Variable speed unit consisting of: frequency inverter, braking resistance, not disconnectable pendant control with potentiometer (3 m of cable).
- Adjustable speed ajustable from 10 % to 100 % with potentiometer.
- Acceleration and deceleration programming tables.
- According to use, speed programming.

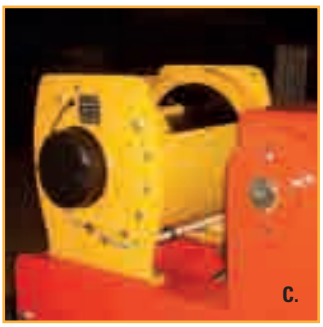


Electronic frequency inverter for speed variation

Strong points





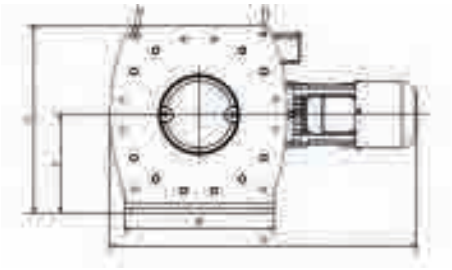


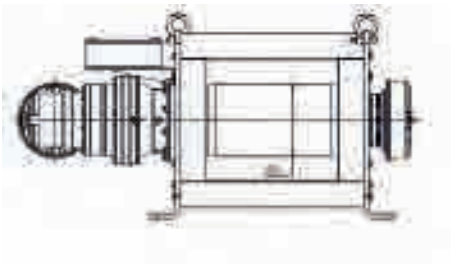
A. Anti-escape system for the rope. Reduced space between the tie-rod and the drum.

B. The tie-rods are mobile according to the rope outlet.

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

Dimensions







> LOW VOLTAGE CONTROL – MODELS WITH 1 SPEED

Models	INDUSTRIA									
	1T 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 mm	911	1050/1045	1065/1090	1169/1194	1194/1220	1224/1250	1241/1267	1241/1267	1288/1087	1288/1314
B mm	290	420	420	520	520	650	700	700	840	840
C mm	375	500	500	665	665	765	870	870	975	975
Ø D mm	125	219.1	219.1	292	292	323.9	355.6	355.6	406.4	406.4
E mm	350	350	350	350	350	350	350	350	350	350
F mm	525	590	590	600	600	600	720	720	720	720
G mm	240	330	330	420	420	420	620	620	750	750
I mm	25	45	45	50	50	115	40	40	45	45
J mm	23	32	32	30	30	30	50	50	47	47
K mm	263	295	295	300	300	300	360	360	360	360
Ø H mm	12	16	16	22	22	22	30	30	32	32
M mm	120	165	165	210	210	210	310	310	375	375
N mm	716/748	823/902	823/902	905/984	954/1190	1013/1181	1103/1271	1133/1271	1176/1314	1176/1314
O mm	548/578	578/657	578/657	578/657	627/795	627/795	662/830	692/830	692/830	692/830

> LOW VOLTAGE CONTROL – MODELS WITH FREQUENCY INVERTER

Models	INDUSTRIA									
	1T 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 mm	911	1050/1045	1065/1090	1169/1194	1194/1220	1224/1250	1241/1267	1241/1340	1288/1087	1288/1367
B mm	290	420	420	520	520	650	700	700	840	840
C mm	473	579/500	579/500	737/665	665	765	870	870	975	975
Ø D mm	125	219.1	219.1	292	292	323.9	355.6	355.6	406.4	406.4
E mm	350	350	350	350	350	350	350	350	350	350
F mm	525	590	590	600	600	600	720	720	720	720
G mm	240	330	330	420	420	420	620	620	750	750
I mm	25	45	45	50	50	115	40	40	45	45
J mm	23	32	32	30	30	30	50	50	47	47
K mm	263	295	295	300	300	300	360	360	360	360
Ø H mm	12	16	16	22	22	22	30	30	32	32
M mm	120	165	165	210	210	210	310	310	375	375
N mm	716/748	823/902	823/902	905/1052	1022/1122	1067/1220	1103/1271	1133/1271	1176/1314	1176/1314
O mm	548/578	578/657	578/657	578/657	627/795	627/795	662/830	692/830	692/830	692/830

Applications









1. Scaffolding manoeuvre.

2. Handling of boxes on a production line.

3. Lifting of a conveyor arm.

4. Supplying of material on a construction site.





CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

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**		**11120**		**12355**	
Capacity top layer kg	6000		7000		8000		9000		10000	
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. 78-81).

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	
Adjustable 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
Adjustable 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	3 Ph-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 Capacity	**7480**		**8725**		**9975**		**11120**		**12355**	
top layer kg	6000		7000		8000		9000		10000	
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	
Adjustable 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
Adjustable 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. 78-81).

TE-SERIE
600 TO 10,000 KG

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

- A range of electric winches designed for every lifting application up to 10 tons as standard. Robustness and large winding capacity allowing them to address a wide range of uses.
- Wall mounting possibility.
- Industry
- Building and public works
- High-rise building sites
- Load elevators



TE 5 t

Technical properties

LOW VOLTAGE CONTROL - MODELS WITH 1 SPEED

- Motor: three-phase 230/400V-50Hz. IP 54.
- Sealed very low voltage electrical unit consisting of:
  - >Contactors,
  - >24 V transformers,
  - >Thermal circuit breaker,
  - >Disconnectable pendant control with 3 m of cable.
- Reducers:
  - >Bronze wheel and wormgear in oil bath for models between 600 and 1,600 kg,
  - >Taper couple and straight-cut gears for models between 2,000 and 10,000 kg,
  - >Secondary reducer for gears under cover.
- Various drum lengths to choose from.
- Numerous rope outlet possibilities.

LOW VOLTAGE CONTROL - MODELS WITH FREQUENCY INVERTER

- Smooth starting and stopping.
- Adjustable speed from 10% to 100% with gradual potentiometer.
- Acceleration and deceleration programming tables.
- According to use, speed programming.
- Not disconnectable pendant control.

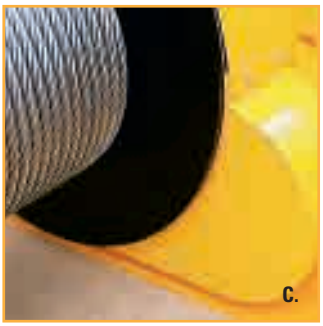


Electronic frequency inverter for speed variation

Strong points


A.


B.


C.



D.

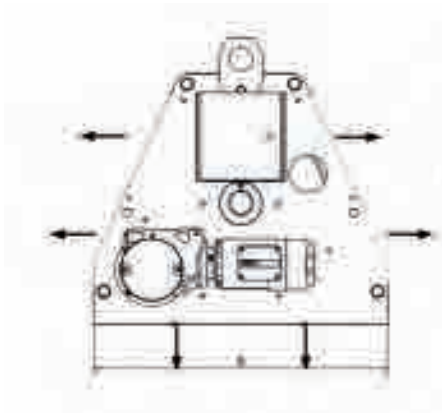
A. The modular design of the TE-Serie allows easy and economical adaptation to your specific needs: length of drums on request (option), rope slack switch and rope-press roller easily adjustable.

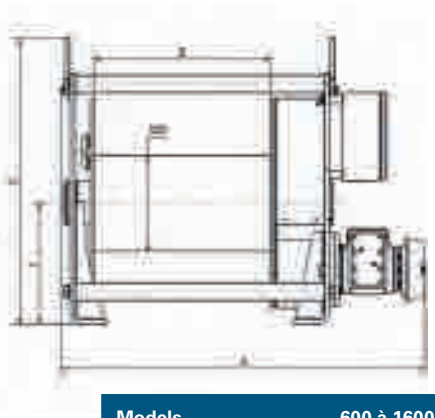
B. Rugged and reliable parts.

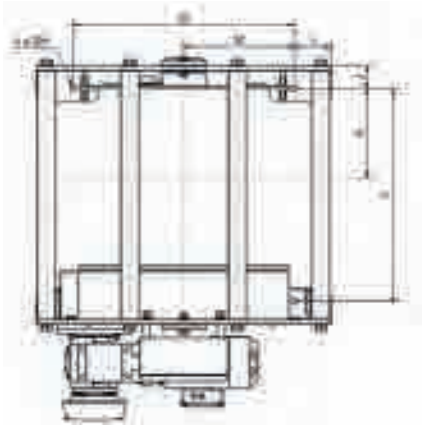
C. Safety: mechanical parts are protected.

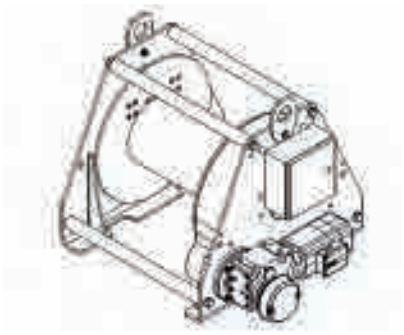
D. Length of drums on request (option).

Dimensions









Models	600 à 1600 TE	2000 à 5000 TE	7500 TE	10000 TE
B mm	720	1000	1200	1240
C mm	545	973	1143	1295
G mm	570	750	1000	1000
I mm	75	125	100	120
J mm	50	78	73	50
L mm	235	410	500	662
E = Drum 300mm	A = 788	A (On request)	-	-
	F = 365	F = 425	-	-
	K = 160	K = 153	-	-
E = Drum 400mm*	-	-	A = 1071	A = 1259
	-	-	F = 522	F = 816
	-	-	K = 212	K = 355
E = Drum 600mm std	A = 1088	A (On request)	-	-
	F = 665	F = 725	-	-
	K = 310	K = 303	-	-
E = Drum 800mm*	-	-	A = 1471	A = 1659
	-	-	F = 922	F = 1216
	-	-	K = 412	K = 555
E = Drum 900mm	-	A (On request)	A = 1571	A = 1759
	-	F = 1025	F = 1022	F = 1316
	-	K = 453	K = 462	K = 605
E = Drum 1,200mm	-	A (On request)	A = 1871	A = 2059
	-	F = 1325	F = 1322	F = 1616
	-	K = 603	K = 612	K = 755

* The 400 and 800 mm lengths are only dedicated to 7.5 and 10 t models.

Models	600 TE		900-1000 TE		1300-1600 TE		2000 TE		2600 TE		3300 TE		5000 TE		7500 TE		10000 TE	
Ø câble mm	7		8		11,5		11,5		13		15,8		18		22		24	
Ø D mm	203		203		203		324		324		324		324		394		394	
Layers	1rst	5th	1rst	5th	1rst	4th	1rst	4th	1rst	4th	1rst	4th	1rst	4th	1rst	4th	1rst	5th
Wire rope cap. m, E = 300mm	29	160	23	140	16	80	24	115	21	100	17	85	15	80	-	-	-	-
Wire rope cap. m, E = 400 mm *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	106	18	131
Wire rope cap. m, E = 600mm std	56	325	48	280	33	160	52	235	46	215	37	180	33	160	-	-	-	-
Wire rope cap. m, E = 800mm*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	216	40	265
Wire rope cap. m, E = 900mm	-	-	-	-	-	-	79	360	70	320	58	270	50	245	50	244	45	299
Wire rope cap. m, E = 1,200mm	-	-	-	-	-	-	107	480	95	430	78	365	68	325	67	326	62	400

* The 400 and 800 mm lengths are only dedicated to 7.5 and 10 t models.

Applications









1.Lifting loads in a cement factory.
2.Installation of a formwork on a construction site.
3.Pulling of weights to compress the snow on a ski jump.
4.Lifting a conveyor belt to load barges.



CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

Technical characteristics - Low voltage control
Models with 1 speed

References	TE 600 S			TE 900 S			TE 1000 S	
	10BT	16BT	22BT	8BT	11BT	22BT	6BT	13BT
Capacity 1st layer kg		**755**			**1165**			**1300**
Capacity top layer kg		600			900			1000
Nb of layers		5			5			5
Wire rope cap. 1st layer m*		56			48			48
Wire rope cap. top layer m*		325			280			280
Wire rope Ø mm		7			8			8
Speed 1st layer m/mn	8.5	13	17.5	6.5	8.5	17.5	5	10.5
Speed top layer m/mn	10	16	22	8	11	22	6	13
FEM		2m			2m			2m
Motor kW	2.2	3	4	2.2	3	5.5	2.2	4
Power		3 Ph-230/400V			3 Ph-230/400V			3 Ph-230/400V
Weight (without wire rope) kg	215	220	220	215	220	220	215	220

References	TE 1300 S		TE 1600 S		TE 2000 S		TE 2600 S	
	5BT	14BT	5BT	11BT	5BT	11BT	4BT	8BT
Capacity 1st layer kg	**1710**		**2110**		**2410**		**3200**	
Capacity top layer kg	1300		1600		2000		2600	
Nb of layers	4		4		4		4	
Wire rope cap. 1st layer m*	33		33		52		46	
Wire rope cap. top layer m*	160		160		235		215	
Wire rope Ø mm	11.5		11.5		11.5		13	
Speed 1st layer m/mn	4	10.5	3.5	8.5	4	9.5	3.5	7
Speed top layer m/mn	5	14	5	11	5	11	4	9
FEM	2m		2m		2m		2m	
Motor kW	2.2	5.5	2.2	5.5	2.2	4	2.2	4
Power	3 Ph-230/400V		3 Ph-230/400V		3 Ph-230/400V		3 Ph-230/400V	
Weight (without wire rope) kg	215	220	215	220	670	700	670	695

References	TE 3300 S		TE 5000 S			TE 7500 S	TE 10000 S
	4BT	7BT	2BT	4BT	10BT	4BT	6BT
Capacity 1st layer kg	**4220**			**6575**		**9875**	**14230**
Capacity top layer kg	3300			5000		7500	10000
Nb of layers	4			4		4	5
Wire rope cap. 1st layer m*	37			33		44	40
Wire rope cap. top layer m*	180			160		215	265
Wire rope Ø mm	15.8			18		22	24
Speed 1st layer m/mn	2.5	5.5	1.5	3	7.5	3	4
Speed top layer m/mn	4	7	2	4	10	4	6
FEM	2m			2m		2m	1Bm
Motor kW	2.2	4	2.2	4	11	5.5	11
Power	3 Ph-230/400V			3 Ph-230/400V		3 Ph-230/400V	3 Ph-230/400V
Weight (without wire rope) kg	680	700	710	730	815	1250	1950

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. 78-81).

Technical characteristics - Low voltage control
Models with frequency inverter

References	TE 600 S			TE 900 S			TE 1000 S	
	10VV	16VV	22VV	8VV	11VV	22VV	6VV	13VV
Capacity 1st layer kg		**755**			**1165**		**1300**	
Capacity top layer kg		600			900		1000	
Nb of layers		5			5		5	
Wire rope cap. 1st layer m*		56			48		48	
Wire rope cap. top layer m*		325			280		280	
Wire rope Ø mm		7			8		8	
Adjustable speed 1st layer m/mn	0.8-8.5	1.3-13	1.7-17.5	0.6-6.5	0.8-8.5	1.7-17.5	0.5-5	1-10.5
Adjustable speed top layer m/mn	1-10	1.6-16	2.2-22	0.8-8	1.1-11	2.2-22	0.6-6	1.4-14
FEM		2m			2m		2m	
Motor kW	2.2	3	4	2.2	3	5.5	2.2	4
Power		3 Ph-230/400V			3 Ph-230/400V		3 Ph-230/400V	
Weight (without wire rope) kg	215	220	220	215	220	220	215	220

References	TE 1300 S	TE 1600 S	TE 2000 S	TE 2600 S	
	14VV	11VV	11VV	4VV	8VV
Capacity 1st layer kg	**1710**	**2110**	**2410**	**3200**	
Capacity top layer kg	1300	1600	2000	2600	
Nb of layers	4	4	4	4	
Wire rope cap. 1st layer m*	33	33	52	46	
Wire rope cap. top layer m*	160	160	235	215	
Wire rope Ø mm	11.5	11.5	11.5	13	
Adjustable speed 1st layer m/mn	1-10.5	0.9-9	1-10	0.4-4	0.7-7
Adjustable speed top layer m/mn	1.4-14	1.2-12	1.2-12	0.5-5	0.9-9
FEM	2m	2m	2m	2m	
Motor kW	5.5	5.5	4	2.2	4
Power	3 Ph - 400 V	3 Ph - 400 V	3 Ph - 400 V	1 Ph - 230 V / 3 Ph - 400 V	3 Ph - 400 V
Weight (without wire rope) kg	220	220	700	670	700

References	TE 3300 S		TE 5000 S			TE 7500 S	TE 10000 S
	4VV	7VV	2VV	4VV	10VV	4VV	6VV
Capacity 1st layer kg	**4220**			**6575**		**9875**	**14230**
Capacity top layer kg	3300			5000		7500	10000
Nb of layers	4			4		4	5
Wire rope cap. 1st layer m*	37			33		44	40
Wire rope cap. top layer m*	180			160		215	265
Wire rope Ø mm	15.8			18		22	24
Adjustable speed 1st layer m/mn	0.3-3	0.6-6	0.1-1.5	0.3-3	0.7-7.5	0.3-3	0.4-4.2
Adjustable speed top layer m/mn	0.4-4	0.7-7	0.2-2	0.4-4	1-10	0.4-4	0.6-6
FEM	2m			2m		2m	1Bm
Motor kW	2.2	4	2.2	4	11	5.5	11
Power	1 Ph - 230 V / 3 Ph - 400 V	3 Ph - 400 V	1 Ph - 230 V / 3 Ph - 400 V	3 Ph - 400 V	3 Ph - 400 V	3 Ph - 400 V	3 Ph - 400 V
Weight (without wire rope) kg	680	700	710	730	815	1250	1950

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. 78-81).

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

- A range of electric winches designed for every lifting application up to 10 ton as standard. Robustness and large winding capacity allowing them to address a wide range of uses.
- Wall mounting possibility.
- Industry
- Building and public works
- High-rise building sites
- Load elevators

Technical properties

LOW VOLTAGE CONTROL - MODELS WITH 1 SPEED

- Motor: three-phase 230/400V-50Hz. IP 54.
- Sealed very low voltage electrical unit consisting of:
  - >Contactors,
  - >24 V transformers,
  - >Thermal circuit breaker,
  - >Disconnectable pendant control with 3 m of cable.
- Reducers:
  - >Bronze wheel and wormgear in oil bath for models between 1,300 and 1,800 kg,
  - >Taper couple and straight-cut gears for models between 2,500 and 15,000 kg,
  - >Secondary reducer for gears under cover.
- 3 drum lengths to choose from.
- Numerous rope outlet possibilities.
- Manually releasable drum when unloaded (except TT10000).
- Limit switch (optional).



TT 6 t

LOW VOLTAGE CONTROL - MODELS WITH FREQUENCY INVERTER

- Smooth starting and stopping.
- Adjustable speed from 10% to 100% with potentiometer.
- Acceleration and deceleration programming tables.
- According to use, speed programming.
- Not disconnectable pendant control.



Electronic frequency inverter for speed variation



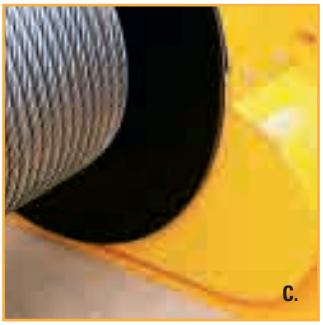
LOW VOLTAGE CONTROL - MODELS WITH DYNAMIC POWER OPTIMISATION (D.P.O.)

The dynamic power optimisation (D.P.O.) allows a variable speed drive to adjust the speed of the winch to the effort required, constantly and automatically (patented system).

Strong points


A.


B.


C.


D.

A. The modular design of the TT-Serie allows easy and economical adaptation to your specific needs: length of drums on request (option), rope slack switch and rope-press roller easily adjustable.

B. Rugged and reliable parts.

C. Safety: mechanical parts are protected.

D. Length of drums on request (option).

Applications


1


2


3


4

1. Moving carriages.
2. Barge hauling winches.
3. Moving boats.
4. Moving boats sideways in a shipyard.

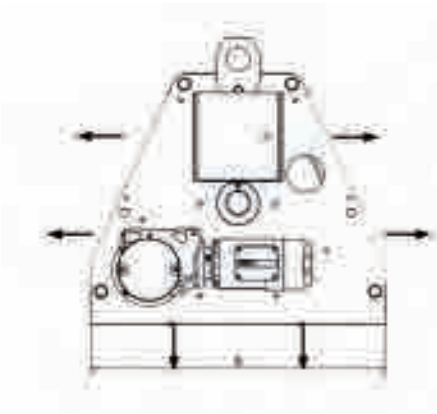
Dimensions

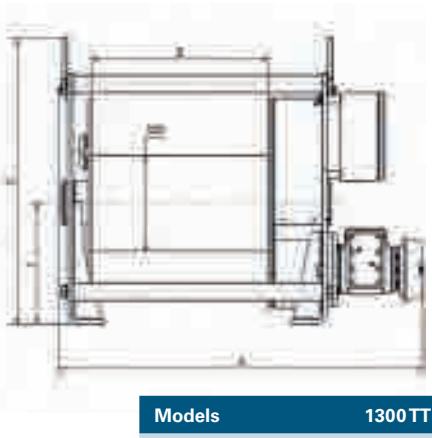
Models	TT 1300		TT 1800		TT 2500		TT 3800		TT 6000		TT 10000		TT 15000	
Rope Ø mm	8		11.5		11.5		13		18		22		24	
Drum Ø mm	203		203		324		324		324		324		324	
Layers	1rst	5th	1rst	5th	1rst	5th	1rst	5th	1rst	5th	1rst	5th	1rst	5th
Wire rope cap. m, drum 300mm	25	143	22	130	27	156	24	109	18	108	-	-	-	-
Wire rope cap. m, drum 600mm std	50	285	35	210	55	310	49	280	36	225	-	-	-	-
Wire rope cap. m, drum 800mm*	-	-	-	-	-	-	-	-	-	-	48	288	44	269
Wire rope cap. m, drum 900mm	-	-	-	-	82	469	73	423	54	325	-	-	-	-
Wire rope cap. m, drum 1,200mm	-	-	-	-	110	665	97	564	71	433	-	-	-	-

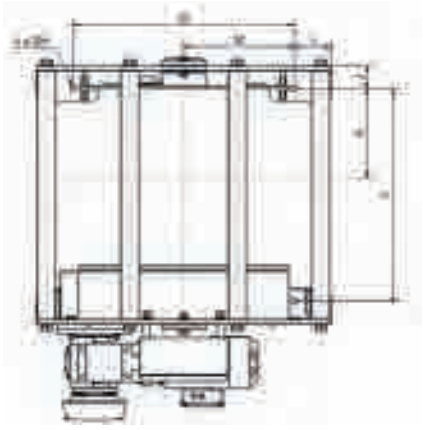
*The 800 mm length is only dedicated to 10 and 15 t models.

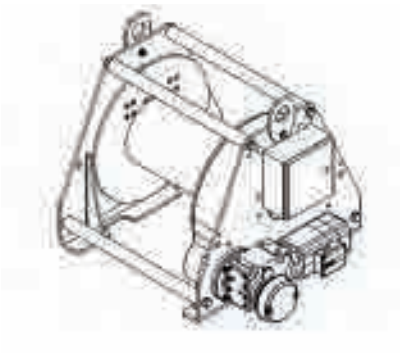
CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

Dimensions









Models	1300 TT or 1800 TT	2500 TT to 6000 TT	10000 TT	15000 TT
B mm	720	1000	1200	1240
C mm	545	973	1143	1295
G mm	570	750	1000	1000
I mm	75	125	100	120
J mm	50	78	73	50
L mm	235	410	500	662
M mm	285	375	500	500
E = Drum 300mm	A = 788	A (On request)	-	-
	F = 365	F = 425	-	-
	K = 160	K = 153	-	-
E = Drum 600mm std	A = 1088	A (On request)	-	-
	F = 665	F = 725	-	-
	K = 310	K = 303	-	-
E = Drum 800mm*	-	-	A = 1471	A = 1659
	-	-	F = 922	F = 1216
	-	-	K = 412	K = 555
E = Drum 900mm	-	A (On request)	-	-
	-	F = 1025	-	-
	-	K = 453	-	-
E = Drum 1200mm	-	A (On request)	-	-
	-	F = 1325	-	-
	-	K = 603	-	-

*The 800 mm length is only dedicated to 10 and 15 t models.

Technical characteristics – Low voltage control
Models with 1 speed
Standard drum: 600 mm (800 mm for 10 and 15 t).

References	TT 1300 S		TT 1800 S		TT 2500 S		TT 3800 S		TT 6000 S		TT 10000 S	TT 15000 S
	08BT	11BT	06BT	12BT	06BT	13BT	04BT	08BT	03BT	11BT	04BT	06BT
Capacity 1st layer kg	**1700**		**2400**		**3200**		**5000**		**9000**		**14000**	**22000**
Capacity top layer kg	1300		1800		2500		3800		6000		10000	15000
Nb of layers	5		5		5		5		5		5	5
Wire rope cap. 1st layer m*	50		35		55		49		36		48	44
Wire rope cap. top layer m*	285		210		310		280		215		285	265
Wire rope Ø mm	8		11.5		11.5		13		18		22	24
Speed 1st layer m/mn	6	9	4	9	5	10	3	6	2	8	3	4
Speed top layer m/mn	8	11	6	12	6	13	4	8	3	11	4	6
Motor kW	2.2	3	2.2	5.5	2.2	4	2.2	4	2.2	11	5.5	11
Power	3 Ph - 230/400 V		3 Ph - 230/400 V		3 Ph - 230/400 V		3 Ph - 230/400 V		3 Ph - 230/400 V		3 Ph-230/400 V	3 Ph-230/400 V
Weight (without wire rope) kg	215	220	215	220	670	700	680	700	710	815	1250	1950

The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 3 when pulling with non-rotating rope.
* Rope and hook extra (see p. 78-81).

Technical characteristics – Low voltage control Models with frequency inverter

Standard drum: 600 mm (800 mm for 10 and 15 t).

References	TT 1300 S			TT 1800 S			TT 2500 S			TT 3800 S		
	8VV1	8VV	11VV	06VV1	06VV	12VV	06VV1	06VV	13VV	04VV1	04VV	08VV
Capacity 1st layer kg		**1700**			**2400**			**3200**			**5000**	
Capacity top layer kg		1300			1800			2500			3800	
Nb of layers		5			5			5			5	
Wire rope cap. 1st layer m*		50			35			55			49	
Wire rope cap. top layer m*		285			210			310			280	
Wire rope Ø mm		8			11.5			11.5			13	
Adjustable speed 1st layer m/mn	6	6	9	4	4	9	5	5	10	3	3	4
Adjustable speed top layer m/mn	8	8	11	6	6	13	6	6	13	4	4	8
Motor kW	2.2	2.2	3	2.2	2.2	5.5	2.2	2.2	4	2.2	2.2	4
Power	1 Ph - 230 V	3 Ph - 230/400 V		1 Ph - 230 V	3 Ph - 230/400 V		1 Ph - 230 V	3 Ph - 230/400 V		1 Ph - 230 V	3 Ph - 230/400 V	
Weight (without wire rope) kg	215	215	220	215	215	220	670	670	700	680	680	700

References	TT 6000 S			TT 10000 S	TT 15000 S
	03VV1	03VV	11VV	04VV	06VV
Capacity 1st layer kg		**9000**		**14000**	**22000**
Capacity top layer kg		6000		10000	15000
Nb of layers		5		5	5
Wire rope cap. 1st layer m*		36		48	44
Wire rope cap. top layer m*		215		285	265
Wire rope Ø mm		18		22	24
Adjustable speed 1st layer m/mn	2	2	8	3	4
Adjustable speed top layer m/mn	3	3	11	4	6
Motor kW	2.2	2.2	11	5.5	11
Power	1 Ph - 230 V	3 Ph - 230/400 V		3 Ph - 230/400 V	3 Ph - 230/400 V
Weight (without wire rope) kg	710	710	815	1250	1950

The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 3 when pulling with non-rotating rope.
* Rope and hook extra (see p. 78-81).

Technical characteristics – Low voltage control Models with D.P.O.

Standard drum: 600 mm (800 mm for 10 and 15 t).

References	TT 1300 S			TT 1800 S			TT 2500 S			TT 3800 S		
	17VV1	17VV	23VV	12VV1	12VV	24VV	12VV1	12VV	25VV	08VV1	08VV	15VV
Capacity 1st layer kg		**1700**			**2400**			**3200**			**5000**	
Capacity top layer kg		1300			1800			2500			3800	
Maxi. speed 1st layer m/mn	13	13	17	9	9	18	9	9	20	6	6	12
Maxi. speed top layer m/mn	17	17	23	12	12	24	12	12	25	8	8	15

References	TT 6000 S			TT 10000 S	TT 15000 S
	05VV1	05VV	22VV	09VV	12VV
Capacity 1st layer kg		**9000**		**14000**	**22000**
Capacity top layer kg		6000		10000	15000
Maxi. speed 1st layer m/mn	4	4	16	6	8
Maxi. speed top layer m/mn	5	5	22	9	12

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: limit switch and load limiter from 1,000 kg.

- 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.



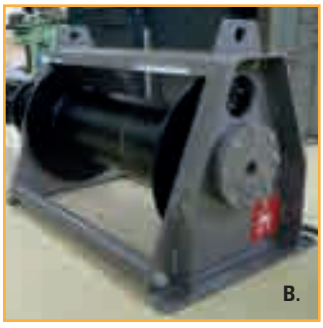
PL 2 t
Coaxial model



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).

Applications


1


2

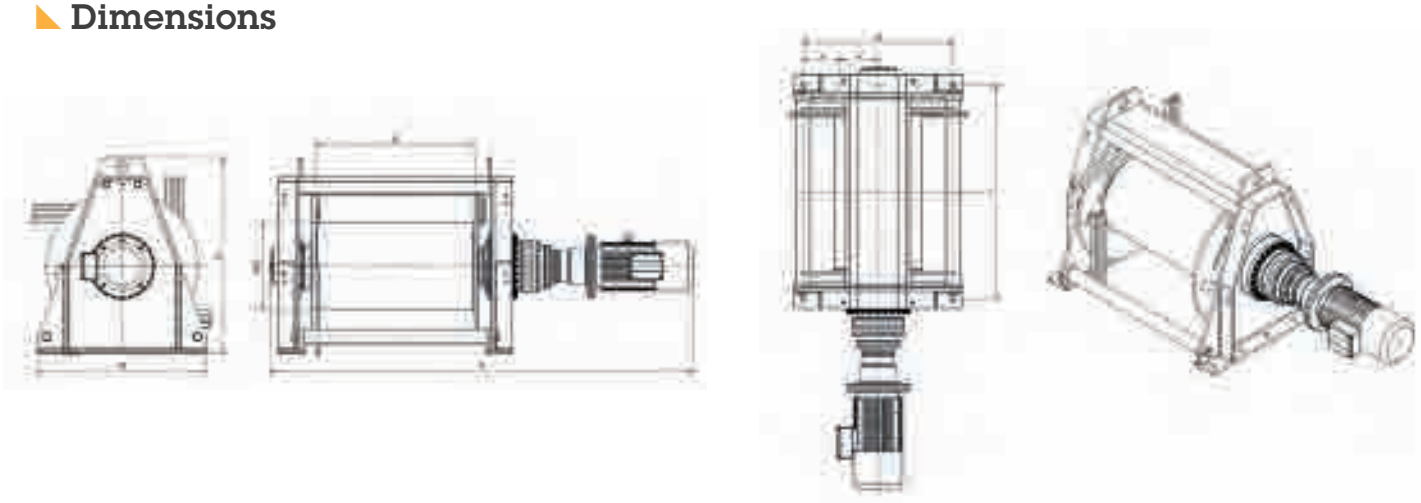

3

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

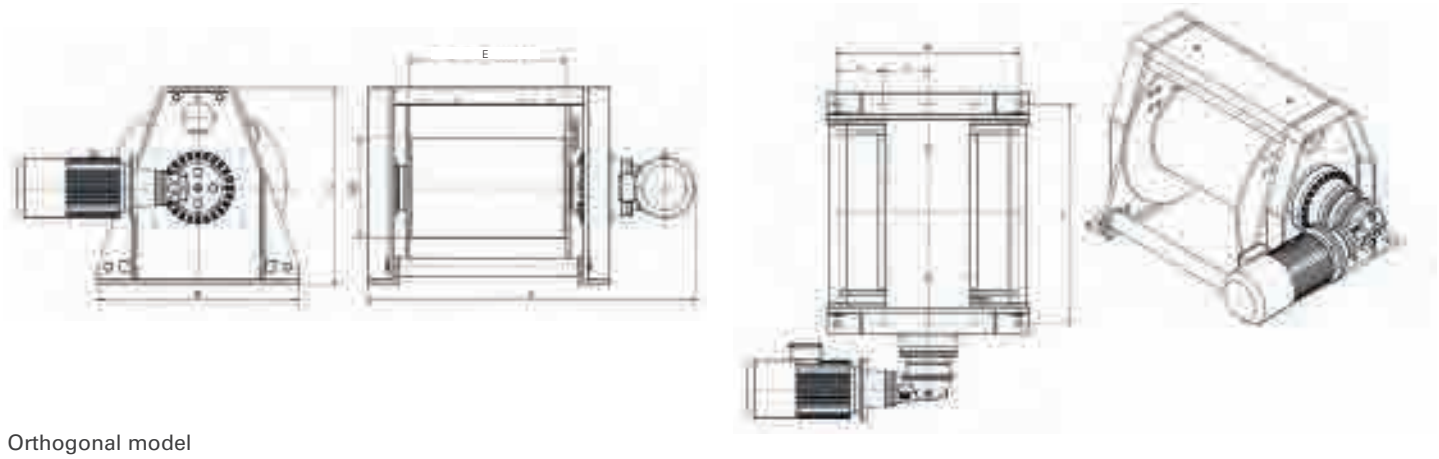
2. Winch use in a Paris construction site.

3. Launching catamarans.

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		

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: limit switch and load limiter from 1,000 kg.

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 - 400 V		3 Ph - 400 V		3 Ph - 400 V	3 Ph - 400 V		3 Ph - 400 V	3 Ph - 400 V		3 Ph - 400 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**		**10390**		**11700**		**13000**	**14300**		
Capacity top layer kg	7000		8000		9000		10000	11000		
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 V		3 Ph - 400 V		3 Ph - 400 V		3 Ph - 400 V	3 Ph - 400 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. 78-81).
** Data concerning the orthogonal model in brackets.

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

OPTIONAL EQUIPMENTS ON ELECTRIC WINCHES



Electronic load limiter
This device stops the winch in the event of an overload without the breakage of the kinematic chain. Compulsory when lifting loads over 1000 kg (Directive 2006/42/EC) in order to avoid rope breakage, structure deformation and accidents due to problems caused by overloading.



Limit switch
Clock-type limit switch: specially designed by HUCHEZ with 2 positions. Easy to adjust, this system guarantees safety by preventing upper and lower overruns.



Limit switch
Cam type: 2, 4, 6 or 8 possible positions. IP 65. Coder option also proposed.



Grooved drum
Facilitates correct winding of the first rope layer. Essential for a two-way system.
See "Winding the rope on the drum" p.91.



Secondary brake
Compulsory in theatre applications (here with a cam limit switch).



Brake release
This device enables manual emergency operation. The releasable drum is required to unwind the rope manually.



Emergency trouble shooting hand wheel
Combined with a brake release lever, it allows the load to be lowered or positioned with precision manually.

OPTIONAL EQUIPMENTS ON ELECTRIC WINCHES



Rope-press roller
It enables the rope to be neatly wound on the drum. This is the essential complement to the grooved drum used for a single winding layer or if the rope is not constantly taut (empty winding through traction).
Not advisable if the rope is wound on several layers.
Mandatory with a back and forth system.



Rope slack switch
This automatically stops the winch from unwinding when the rope is not taut, for example during lowering when an obstacle is blocking the load or in tension.



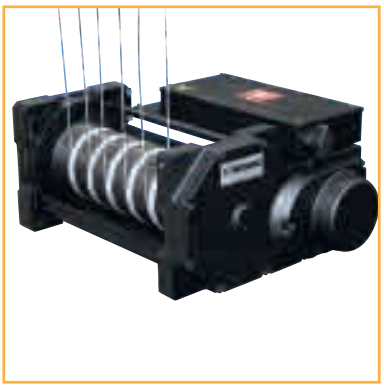
Rope slack switch
This automatically stops the winch from unwinding when the rope is not taut, for example during lowering when an obstacle is blocking the load or in tension.



Releasable drums
Particularly useful for no load paying out of rope over long distances.
For pulling use only.



Additional rope clamp
Allows you to lift a load using several ropes, lift several loads or make a two-way system.



Multirope grooved drum
For lifting or pulling a load with different fixing positions. Widely used for theatre applications.



Additional flange drum
Allows several layers to be wound with 2 ropes.



Chassis
The use of a tubular frame is specially designed for construction sites and public works. It has a document holder and a site electric socket as standard.



Lower chassis
Fastened to the ground to allow easier installation and handling.

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OPTIONAL EQUIPMENTS ON ELECTRIC WINCHES

NEW



Chassis for telescopic arm loaders
The bottom frame allows easy handling thanks to two holes dedicated to the forks of these loaders.

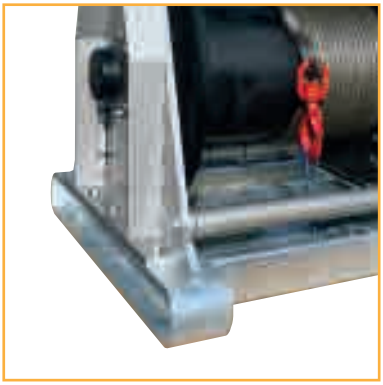


Tubular protection
Specially designed for construction sites and public works. The ideal complement for the lower chassis.

NEW



Rocking winch
Effective system allowing good winding of the wire rope on the drum.



Skip
Specially designed for construction sites and public works.
Galvanised finish. Fixed to the ground or held by stays. Easy handling thanks to the locations for the forks.



Rain cover

NEW



HAULING radio control
Hauling only. Range of 100 m in open areas. Available as a long distance version (500 m in open areas). Frequency 2.4 GHz. IP 65. Possible option: protective cover.

NEW



ADJUSTABLE SPEED DRIVE HAULING radio control
Hauling only. Adjustable speed drive version. Range of 100 m in open areas. Available as a long distance version (500 m in open areas). Frequency 2.4 GHz. IP 65. Possible option: protective cover.

NEW



LIFTING RADIO CONTROL
SIL3/PLe safety level. Range of 400 m in open areas.
Available in adjustable speed drive version. Frequency 433 MHz. IP 65. Lithium-ion battery. Possible options : information returned on screen, frequency 2.4 GHz…

NEW



PROPORTIONAL ADJUSTABLE SPEED DRIVE LIFTING radio control
SIL3/PLe safety level. Range of 400 m in open areas.
IP 66. Lithium-ion Battery. Proportional buttons for adjustable speed drive management and a display for information.

OPTIONAL EQUIPMENTS ON ELECTRIC WINCHES



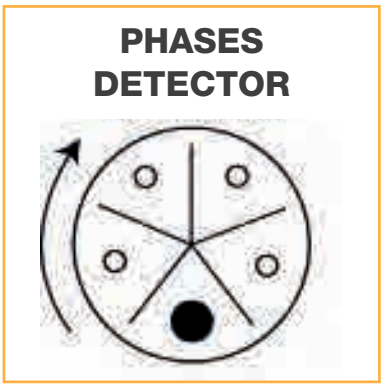
Tarpauline cover
Custom made. Consult us.



Special paint
Certified type C5M: for marine/off shore use.
Type C4: for use on rugged environnement.



Drum length on request



Phases detector
Avoids reversal between the up and down directions when connecting the winch. This option is standard with the work site option.



IP65 protection
Engine brake, external electrical unit, cam type limit switch.





Ropes, hooks and other lifting accessories (idler pulley, etc.)
The type of rope must be chosen depending on a certain number of parameters including the intended application of your winch. Given the large number of different ropes, unless otherwise requested, our winches are supplied without ropes or hooks. Stainless steel rope, non-twisting galvanised, textile, standard galvanised steel, high strength available. Once agreed with our advisers, the rope may be wound to order or supplied separately. You also have a choice between plain rope ends, one end with just a thimble or a rope with a thimble and hook.
A selection of hooks and other lifting accessories (idler pulley, etc.) can be found on p. 78-86.

But in addition:

- **Absolute or incremental coder to order.**
- **Timer.**
- **Additional rope length for the control box (per metre).**
- **Additional electrical power cable length (per metre).**
- **Motors: Other voltages and control frequencies or certification (UR, CSA) on request.**
- **…**

These options are to be defined when ordering: Our sales advisers are there to help you.

CE - EC REGULATIONS (2006/42/EC): Emergency stop is obligatory for all electric winches. When lifting, an electric winch or installation, must include: limit switch and load limiter from 1,000 kg.

OPTIONAL EQUIPMENTS ON ELECTRIC WINCHES



		Motorbox	Primo	TRBoxter	Industria	TE	TT	PL
□ Electronic load limiter	p. 55	-	-	X	X	X	X	X
□ Limit switch	p. 55	-	-	X	X	X	X	X
□ Grooved drum	p. 55	-	X	X	X	X	X	X
□ Secondary brake	p. 55	-	-	X	X	-	-	-
□ Brake release	p. 55	-	-	X	X	X	X	X
□ Emergency trouble shooting hand wheel	p. 55	-	-	X	X	X	X	X
□ Rope-press roller	p. 56	-	X	X	X	X	X	X
□ Rope slack switch	p. 56	-	-	X	X	X	X	X
□ Releasable drum	p. 56	-	-	X	-	-	X	-
□ Additional rope clamp	p. 56	-	-	X	X	X	X	X
□ Multirope grooved drum	p. 56	-	-	X	X	X	X	X
□ Additional flange drum	p. 56	-	-	X	X	X	X	X
□ Chassis	p. 56	-	-	X	-	-	-	-
□ Lower chassis	p. 56	-	-	-	X	X	X	X
□ Chassis for telescopic arm loaders NEW	p. 57	-	-	-	X	X	X	X
□ Tubular protection	p.57	-	-	-	-	X	X	X
□ Rocking winch NEW	p. 57	-	-	X	-	-	-	-
□ Skip	p. 57	-	-	-	-	-	X	X
□ Rain cover	p. 57	-	-	X	-	-	-	-
□ Tarpauline cover	p. 58	X	X	X	X	X	X	X
□ Special paint (C4, C5M)	p. 58	-	-	X	X	X	X	X
□ Phases detector	p. 58	-	-	X	X	X	X	X
□ IP65 protection	p. 58	-	-	X	X	X	X	X
□ Drum length on request	p. 58	-	-	X	X	X	X	X
□ Ropes, hooks and other lifting accessories (idler pulley, etc.)	p. 58	X	X	X	X	X	X	X
□ HAULING radio control NEW	p. 57	-	-	X	X	-	X	X
□ ADJUSTABLE SPEED DRIVE HAULING radio control NEW	p. 57	-	-	X	X	-	X	X
□ LIFTING radio control NEW	p. 57	-	-	X	X	X	-	X
□ PROPORTIONAL ADJUSTABLE SPEED DRIVE LIFTING radio control NEW	p. 57	-	-	X	X	X	-	X
□ Incremental or absolute encoder	p. 58	-	-	X	X	X	X	X
□ Timer	p. 58	-	-	X	X	X	X	X
□ Additional rope length for the control box (per metre)	p. 58	-	-	X	X	X	X	X
□ Additional electrical power cable length (per metre)	p. 58	-	-	X	X	X	X	X
□ Motors: Other voltages and control frequencies or certification (UR, CSA)	p. 58	-	-	X	X	X	X	X
□ Ask us if you have any other requirements		X	X	X	X	X	X	X

PETROL (TS-SERIE) OR DIESEL (TD-SERIE) CONSTRUCTION SITE WINCHES 300 TO 5,000 KG

- These winches are independent and much appreciated for all pulling applications on sites where the electric power supply is unavailable or difficult to obtain.
- Building and public works.

Technical properties

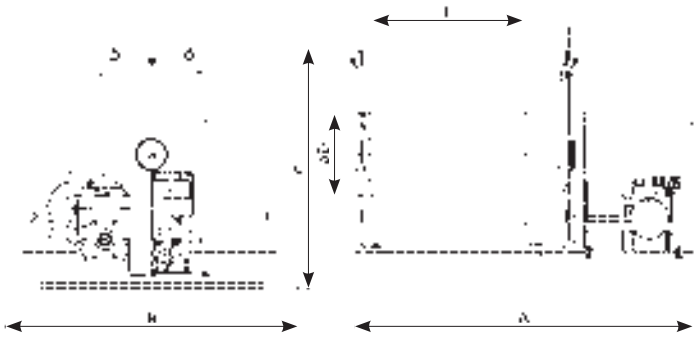
- Speed of implementation.
- All the controls are obtained using a single control lever. When the operator releases the lever, the lever automatically returns to the brake position.
- Reduced maintenance, limited to changing the oil and lubricating the reduction gear every 500 hours of service or once a year.
- Due to conception, it is not possible to equip:
  - > Diesel winches with limit switches,
  - > Petrol and diesel winches with load limiters.
- Equipments and options, consult us.



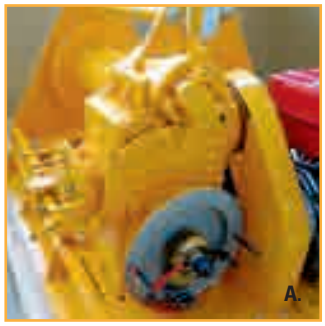
TS-Serie – TD-Serie

Dimensions

Models	TS - TD			
	300 to 750 kg	1 to 1.5 t	2 to 3 t	5 t
B mm	845	845	1170	1170
C mm	645	645	1000	1030
Ø D mm	203	203	324	324
E = drum 300mm	A=1021	A=1021	A=1075	A=1180
E = drum 600mm std	A=1321	A=1321	A=1375	A=1480
E = drum 900mm	-	-	A=1675	A=1780



Strong points



A. Reducer/Reverser/brake.

Technical characteristics - Standard drum of 600 mm

References	300 TS 34	500 TS 24	750 TS 16	1000 TS 12	1600 TS 8	2000 TS 6	2500 TS 5	3000 TS 4	5000 TS 3
Capacity 1st layer kg	**340**	**595**	**920**	**1300**	**2110**	**2410**	**3070**	**3830**	**6575**
Capacity top layer kg	300	500	750	1000	1600	2000	2500	3000	5000
Nb of layers	4	4	4	4	4	4	4	4	4
Wire rope cap. 1st layer m*	76	56	48	48	33	52	46	37	33
Wire rope cap. top layer m*	334	253	219	219	161	239	215	182	163
Wire rope Ø mm	5	7	8	8	11.5	11.5	13	15.8	18
Speed 1st layer m/mn	30	20	13	10	6	5	3	3	1
Speed top layer. m/mn	34	24	16	12	8	6	4	4	2
Motor CV	6	6	6	6	6	6	6	6	7
Weight (without wire rope) kg	125	225	225	325	325	810	810	815	1090

References	300 TD 28	500 TD 16	750 TD 13	1000 TD 8	1500 TD 6	2000 TD 4	2500 TD 3	3000 TD 3	5000 TD 3
Capacity 1st layer kg	**410**	**664**	**1037**	**1300**	**1930**	**2400**	**3080**	**3830**	**6400**
Capacity top layer kg	300	500	750	1000	1500	2000	2500	3000	5000
Nb of layers	4	4	4	4	4	4	4	4	4
Wire rope cap. 1st layer m*	76	56	48	56	33	52	46	37	33
Wire rope cap. top layer m*	334	253	219	253	161	239	215	182	163
Wire rope Ø mm	5	7	8	8	11.5	11.5	13	15.8	18
Speed 1st layer m/mn	24	14	10	6	4	3	3	2	2
Speed top layer. m/mn	28	17	13	8	6	4	4	3	3
Motor CV	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	7.6
Weight (without wire rope) kg	130	230	230	330	330	815	815	820	1145

* Rope and hook extra (see p. 78-81).
The indicated rope diameter corresponds to the capacity on the top layer with a safety coefficient equal to (about) 3 when pulling with non-rotating rope.





Personnel lifting

Personnel lifting

1. 2. Mobile well inspection crane used to lower people into wells in geological sampling operations. (HUCHEZ Engineering)

3. Gantry crane and cradle used to lift people during maintenance operations (HUCHEZ Engineering).

PERSONNEL LIFTING
SECURITREUIL

Important recommendations :
CE review certificate type 2006/42/EC.
Equipment approved by APAVE and providing all safety features necessary for lifting people.

NEW

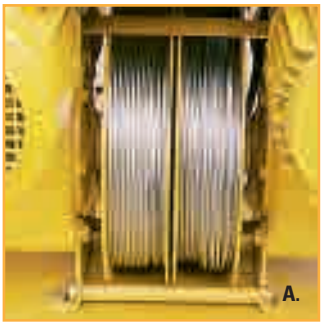
· Visits, inspections, access to:
  - Silos, treatment plant pits,
  - Bridge piers, underground networks, sewers…



Technical properties

· High-resistance, non-rotating galvanized steel ropes.
· Three-phase 230 V or 400 V – 50 Hz, P = 0.75 kW motor. Working height: 25, 50 or 70 m.
· Wheels with locking system ease the movement and to hold it in working position.
· Low voltage electric control :
  - Two 48 volt control boxes provided for. One is mounted on the frame of the Sécuritreuil and the other on the operator's seat.
  - The operator pendant control can be fitted either with spooler (SCT25E) or radiocontrolled (SCT25RC, SCT50RC or SCT70RC).

Strong points













A. Two independent ropes. Breaking load: 1,600 kg on each. Safety factor equal to 10.

B. Trouble-shooting crank handle.

C. Lower limit switch. No-current break. In the event of power failure, the winch stops automatically with the brakes applied.

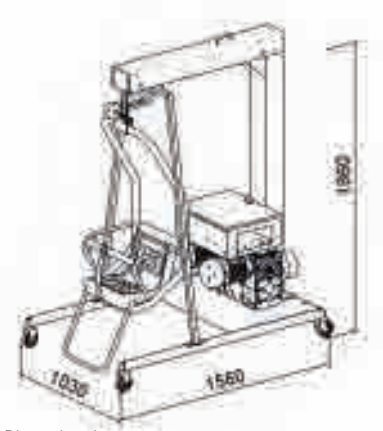
D. Upper limit switch and final limit switch

E. The operator pendant control can be radiocontrolled.

F. Two independent winches. One winch ensures the lifting function and the other the fall arrest function. Both winches are synchronized.

Dimensions

Weight: 330 kg



Dimensions in mm.

Technical characteristics

References	SCT25E CE*	SCT25RC CE*	SCT50RC CE*	SCT70RC CE*
Capacity kg		**125**		
Speed m/mn		9		
Motor kW		0.75		
Power		3 Ph - 230/400V		
Working height m	25	25	50	70

* Load limiter and rope included.

Our special engineered makes



1

2

Our special engineered makes

1. ATEX lifting winch used on an oil platform (HUCHEZ Engineering).

2. Specific solution for a factory of a french food industry group for rapidly loading and unloading railway carriages (HUCHEZ Engineering).

PERSONNEL LIFTING: TWO MORE CUSTOM-MADE SOLUTIONS

Lifting personnel requires specific skills and equipment in order to guarantee the safety of those performing the work.
Two large manufacturers have therefore called on the **expertise and knowledge** of our **HUCHEZ Engineering** department, which has specialized in **designing and manufacturing tailored lifting solutions** since 2000.



1. Gantry crane holding a nacelle used during the maintenance of a rotating laminator in which jet engine crowns are made.



2. GMIP 140, Well Inspection Mobile Crane, used to lower engineers responsible for geological sampling into exploratory wells for mining.

Technical features

- Gantry crane with double winch (one for lifting and one anti-fall), one nacelle, one retractable gangway, different options supplied: Radio control, maintenance lifting bar for the installation, etc.
- Lifting speed: 5 m/min.
- Max. working depth: 8 m.
- Useful load : Max. 240 kg (2 pers. with their tools).
- Equipment approved by certifying agency.

- The assembly consists of a trailer, a main winch, a safety follow-up winch, an ergonomic seat (with harness, fall protection, radio control, lamps, tablet support, axe, etc.) and a petrol-powered generator.
- Average lifting speed: 15 m/min (on adjustable speed drive).
- Max. stroke: 115 m.
- Max. useful load: 140 kg (1 person, tools and samples included).
- Maximum load when moving: 750 kg.

The ATEX 94/9/CE directive is applied to apparatuses (electrical, mechanical, hydraulic, etc.) intended for use in explosive atmospheres (AT-EX), in other words one that, given the local and operational conditions, is liable to become explosive due to the presence of a mixture of inflammable gases, vapours, mists or powers with air under the atmospheric conditions.

According to requirements, our winches or some of their components can meet these standards and are tailored to meet the specific requirements of hazardous environments such as those found in the chemical and petrochemical sectors, as well as those in nuclear power stations, etc.



1



2

1. Lifting winch with ATEX components (electrical unit, upper and lower limit switch, motor, reduction gear).

2. ATEX lifting winch used on an oil platform.

Technical features

- Stainless steel structure and rods
- Capacity on the top layer: 1,500 kg
- Lifting speed on the top layer: 4.3 m/min.
- Rope capacity: 120 m, 12 mm dia.

- Equipment for zone 2 gas (category 3).
- Capacity on the top layer: 2,000 kg.
- Lifting speed on the top layer: 5.5 m/min.
- Capacity: 60 m of wire rope, 12 mm dia.

HUCHEZ Engineering also provides innovative solutions in all sectors of activity.



1. **Specific solution for a factory of a French food industry group** for rapidly loading and unloading railway carriages to **transport bottles used in the production of natural mineral water.** This task was previously carried out manually.



Technical features

- Arm system on the platforms between two loading tracks. Each winch positioned between two carriages.
- The handlers are controlled by the same radio control both for winding and unwinding the rope. Load: 150 daN
- Speed: 25 m/min (45 m/min for rapid emptying),
- Textile rope – 28 m, 5 mm dia. – with protection handle, sleeve and hook.
- These winches are also fitted with a deflector and rope holding pressure rollers.

HUCHEZ designs and develops winches from 100 kg to several tens of tons with rope capacities of up to several kilometres.



1

1. **20 ton winch** used to launch bridges, which consists of sliding a bridge element under construction onto its future piles, in order to place it in its final position.



1

Technical features

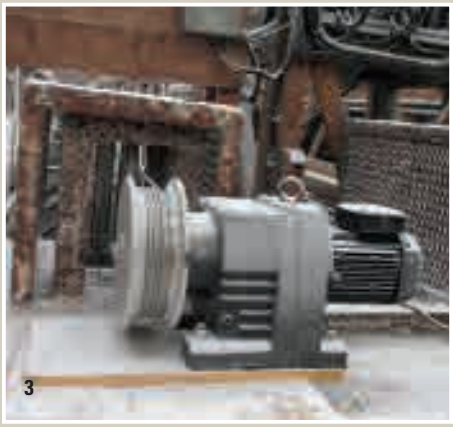
- Winch with 4 reduction gears.
- Capacity: 20 t
- Capacity: 1400 m of rope with 32 mm dia.
- Speed: 5 m/min

CAPSTANS

On request, **HUCHEZ** designs and manufactures reliable and high-performance horizontal and vertical capstans.


1


2


3


4

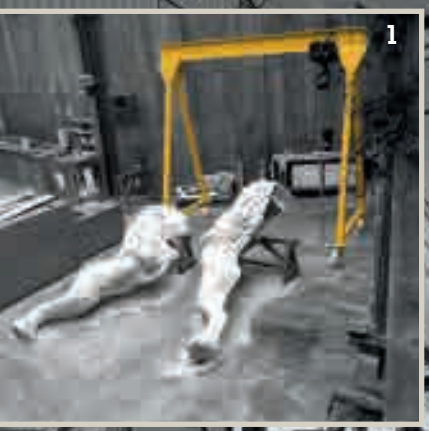

5


6

Technical features

1. Harbor of Calais. Capacity: 1,000/2,000 daN – speed: 29 m/min.
2. Le Havre: Roll-on/roll-off vertical capstan. Le Havre Grand Port Maritime (Capacity: 800/1,600 daN - speed: 30 m/min).
3. Capstan, capacity: 800 daN – speed: 10 m/mn. Moving a trolley back and forth.
4. Horizontal capstan to pull waggons.
5. Capstans specially made in the respect of the historic environment for the old harbor of Honfleur.
6. Capstan. Waggon pulling.

Gantry cranes & jib cranes





Gantry cranes & jib cranes

1. Handling loads in a restoration workshop.
2. Lifting loads in a mechanical workshop.
3. Jib crane installed at an altitude of 2,200 m.

STEEL WORKSHOP GANTRY CRANES FROM 500 TO 5,000 KG

- Maintenance workshops, trucks and automobile workshops.
- All works – interior/exterior.

Technical properties

- Very solid mechanically welded construction.
- Composed of square pipe columns and one IPE profile roller rail, this gantry crane can be dismantled into seven parts.
- Assembly with galvanized fittings.
- Easy to use.
- Fitted with 4 pivoting wheels mounted on thrust ball bearings, it can only be moved when empty.
- Glycerophtalic lacquer finish (yellow RAL 1028).
- Supplied disassembled (cheaper transport).
- Hoist trolley, manual or electric hoist (only on manual trolley) optional.
- Other possible options: Locking wheels, galvanized finish.



Ref. 915 - Hoist trolley and hoist optional.

Dimensions

Consult us.

Applications


1


2


3


4

1. Load handling in a workshop.
2. Load handling in a clean room.
3. Exterior works (specific realization).
4. Load lifting on a restoration site.

Technical characteristics

References	915																	
Capacity kg	**500**			**1000**			**1500**			**2000**			**3000**			**5000**		
Range m	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5
Height under the iron beam m	3 / 3.5 / 4 / 4.5 / 5																	
Weight kg	On request																	

- Maintenance workshops, trucks and automobile workshops…
- All works.
- Interior.

Technical properties

- Very solid mechanically welded construction.
- Easy to use.
- Composed of square pipe columns and one IPE profile roller rail.
- Polyurethane finish (yellow RAL 1028).
- Fitted with white polyamide pivoting wheels or banded polyurethane wheels, depending on models.
- Movable under load over smooth, clean floors.
- Maximum lifting speed = 16 m/min.
- Push displacement only.
- Supplied disassembled into 3 parts. Assembly with galvanized fittings.
- Hoist trolley, manual or electric hoist optional.
- Other possible options: wheels with polyurethane tires, locking wheels, non-rotating wheels, feeding line, lockable main switch, galvanized finish, outdoor use…
- Other ranges on request.



Ref. 919

Dimensions

Consult us.

Applications



1. Lifting loads in a workshop.

Technical characteristics

Reference	919																	
Capacity kg	**500**			**1000**			**1600**			**2000**			**3200**			**5000**		
Range m	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5
Height under the iron beam m	3 / 3.5 /4 / 4.5 / 5																	
Weight kg	220	239	257	281	303	345	294	316	380	416	461	518	449	492	534	641	698	756

GALVANIZED COLUMN JIB CRANES FROM 150 TO 500 KG

Recommandation importante :
Le support de la potence (murale ou sur colonne) doit être suffisamment résistant pour supporter les efforts.

· Purifier stations.
· Water dams.
· Water treatment stations.

Technical properties

· Galvanized finish.
· Weather protective cover for the base.
· Jib crane rotates using an retractable lever.
· Range adjusted by holes on the arm.
· Square, ribbed base plate.
· Possible adaptation of a manual winch (631 AFL – standard or stainless steel – or MANIBOX GR, see pages 16-17, 20) or electric (MOTORBOX, see pages 24-25) (optional).
· Idler pulley, wall base and anti rotation kit optional.
· The base and the jib crane may be supplied separately.
· Setup and installation: Consult us.



Ref. 917 - 150 kg.

Strong points





A. Wall base (optional). Allows the jib crane to be fixed in place.

B. Anti-rotation kit (option). Allows the blocking of the jib crane.



Ref. 917 - 500 kg.

Applications



1. Load lifting on a hydroelectric dam.

Dimensions

Consult us.

Technical characteristics

Reference	917		
Capacity kg	**150**	**300**	**500**
Overall height m	2.30	2.50	2.50
Max. range m	0.80	1	1
Weight (jib crane/base) kg	22/7	55/30	77/30





Site lifting

Site lifting

1. CT3 – Load lifting.
2. GS 250 on trailer – Material lifting on a construction site.
3. GS 250.

NEW

MODELS FOR HOIST

>Ref. CT3

· Roads.
· Underground networks.

Technical properties

· The aluminium structure makes it lightweight, solid and highly resistant to corrosion.
· Compact when folded and telescopic, they are easy to transport.
· Useful when working on a site and in particular for underground work when there is no upper anchorage point.
· Articulated feet with two or three positions depending on the model to adapt to the type of ground: spade tip (soft ground), flat shoe (hard ground) or notched shoe (slippery ground)
· Head (steel on 250 kg, high-strength cast aluminium on 500 and 1000 kg) with several anchoring points allowing different types of reeving or fastening.
· NEW The legs are held together with 3 independent textile straps with self-locking buckle (models from 500 kg).



Ref. CT3 250 kg, flat side (hoist optional)



Ref. CT3 500 kg, flat side (hoist optional)

Strong points





A. Articulated feet 2 positions (from 500 kg version) or 3 positions (250 kg version). Handle on legs.

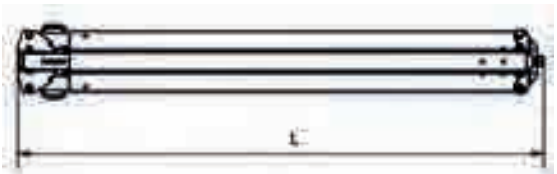
B. Multiple anchor points for fitting a pulley, a second hook for a tackle, etc.

Dimensions

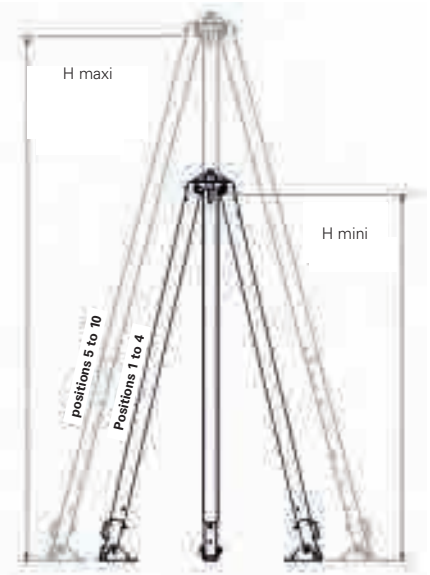
For the 500 kg models (when maxi. working height is 3 m) and the 1,000 kg models: length (L) is 2.30 m.

For the 500 kg models (when maxi. working height is 4 m), the 2,000 kg and the 3,000 kg models: length (L) is 3.30 m.

For the 250 kg models: length (L) is 1.56 m.



CT3



Technical characteristics

References	CT3					
Capacity kg	**250**	**500**	**500**	**1000**	**2000**	**3000**
Height under tripod head (H mini.-maxi.) m	1.50-2	1.90-3.30	2.80-4.20	1.90-3.30	2.80-4.20	2.80-4.20
Required circle Ø to position the feet (pos. 1 to 4 – pos. 5 to 10) m	1.60	2.00-2.30	2.90-3.45	2.00-2.30	2.90-3.45	2.90-3.45
Weight kg	25	45	55	45	120	120

MODELS FOR WINCH
>Ref. CT4

Technical properties

- These tripods offer the same general characteristics as the CT3 models.
- The CT4 also has the advantage of being fitted with a fixation plate on a double leg providing the means for fitting manual or electric winches and can thus lift loads of 250 to 1,000 kg:
  >Manual winches MANIBOX GR 500 / 1,000 kg: hand spurgear winches, rope length of 18 and 30 m, depending on the models.
  >Compact electric winches, TRBoxter 250 to 500 kg: multi-functional electric winches, very robust with rope capacity of 21 to 56 metres depending on the models.
- Independent straps kits, fixation plate and offset pulley available for sale for older models.



Ref. CT4 (TRBoxter winch optional)

Strong points





A. NEW fixation plate easy to set up.

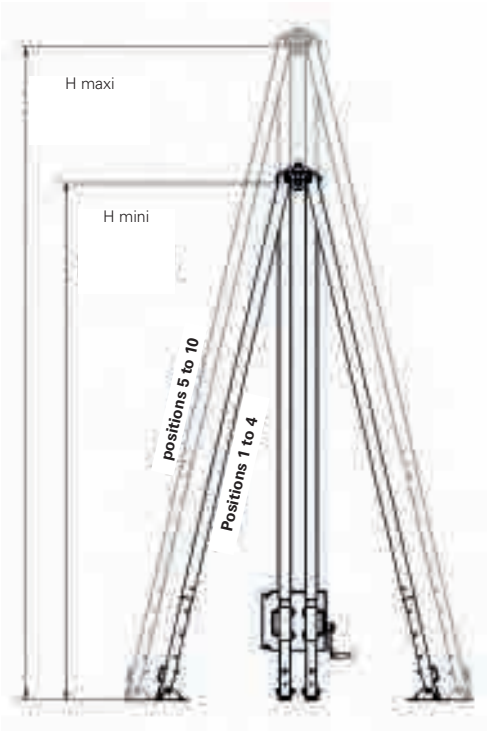
B. NEW offset pulley for no longer dismantling the feet to allow the passage of the wire rope during each use.

Dimensions

For the 500 kg models (when maxi. height under tripod beam is 3 m) and the 1000 kg models, length (L) is 2.78 m.

For the 500 kg models (when maxi. height under tripod beam is 4 m), length (L) is 3.78 m.





Technical characteristics

CT4

References	CT4 500 3	CT4 500 4	CT4 500 3	CT 4 500 4	CT4 1000	CT4 1000
Capacity kg	**250/350/500**		**500**		**1000**	**1000**
Lifting height m	56/56/42		18		21	30
Height under tripod head (H mi-ni.-maxi.) m	1.90-3.30	2.80-4.20	1.90-3.30	2.80-4.20	1.90-3.30	1.90-3.30
Required circle Ø to position the feet (pos. 1 to 4 – pos. 5 to 10) m	2.00 - 2.30	2.90 - 3.45	2.00 - 2.30	2.90 - 3.45	2.00 - 2.30	2.00 - 2.30
Weight (without winch and fixation plate) kg	56	69	56	69	56	56
Hand or electric winch	TRBoxter 250/350/500 kg. 1Ph-230 V		Manibox GR 500		TRBoxter 500 kg mou-flé. 3Ph-230/400 V	Manibox GR 1000

MULTI CRANE GS250
GS250 ON TRAILER

NEW

- Underground network works, roads … (GS 250 / GS 250 on trailer)
- Terrace works (GS 250).

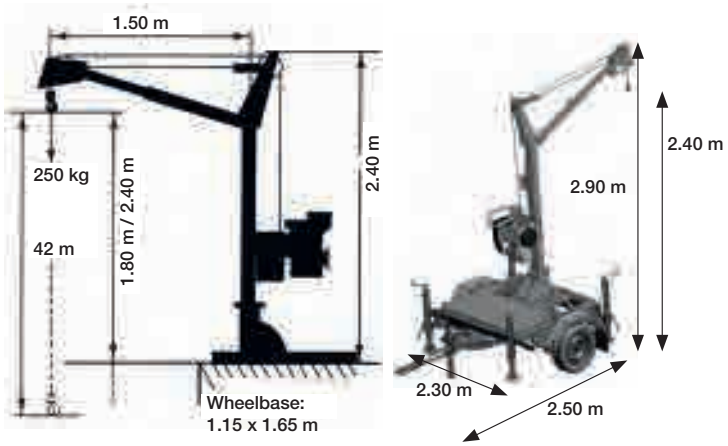
Technical properties

- Welded construction.
- Protection by paint.
- 230 V power supply, single phase – 50 Hz or 400 V three-phase – 50 Hz.
- TRBoxter electric winch with 1.1 kW frequency inverter for speed variation (see page 32-39) specifically adapted to this crane.
- Upper limit switch (on the jib) and lower limit switch (on the winch).
- GS250 on trailer can be moved without dismantling. It is fitted with an adjustable rudder with 4 screws and a spirit level (fixed to the centre of the platform) to ensure that the assembly is level. The weight assembly is built into the trailer (four 25 kg counterweights).



Ref. GS 250
Counterweight: 30 weight of 25 kg = 750 kg.

Dimensions





Ref. GS 250 on trailer

Strong points







A. TRBoxter winch. Very low voltage remote control.

B. Dismontable in 6 elements and articulated.

C. Protection. Handle for 360° rotation.

D. Handy and comfortable counterweight handle.



Technical characteristics

Reference	GS 250	GS 250 on trailer
Capacity kg	**250**	**250**
Range (hedge of chassis) m	1.30	1.15
Wire rope capacity m*	42	42
Speed m/mn	2.3 to 23	2.3 to 23
Power	1 Ph - 230 V 3 Ph - 400 V	1 Ph - 230 V 3 Ph - 400 V
Weight (without ballast) kg	260	495

* Rope and hook included.

Ropes, hooks & accessories





1

Ropes, hook and accessories

1. Textile rope and hook
2. Idler pulleys
3. Finish with sleeved thimble and eye.

DYNEMA® D12 SK75 TEXTILE ROPE

· Ideal for hauling.
· As strong as steel for an equivalent diameter and 7 to 8 times lighter.
· Anti-corrosion.
· Non-twisting.
· It can be handled without gloves.

Technical characteristics

Wire rope Ø mm	4	5	6	7	8	9	10	12	14
Pulling working load kg	467	733	1 067	1533	1 933	2433	3 033	4 333	5667
Mini. breaking load. kg	1 400	2 200	3 200	4600	5 800	7300	9 100	13 000	17000
Theoretical weight kg/100 m	0.9	1.5	2	2.7	3.6	4.7	5.7	8	11

Wire rope Ø mm	16	18	20	22	24	26	28	30	
Pulling working load kg	7333	9 333	11333	14 000	16000	19333	22667	26000	superior Ø on demand
Mini. breaking load. kg	22000	28 000	34000	42 000	48000	58000	68000	78000	
Theoretical weight kg/100 m	14	18	22	26	31	36	42	48	

STANDARD GALVANIZED STEEL ROPE

> METALLIC CENTRAL CORE 1960 N/mm² - RIGHT HAND LAID

· Used for lifting or hauling loads but the load must be guided.
· Single eye hooks are recommended.

Technical characteristics

Wire rope Ø mm Construction	3	4	5	6	7	8	9	10	12
Lifting working load wire rope kg	6 x 7	6 x 7	6 x 7	6 x 19	6 x 19	6 x 19	6 x 19	6 x 19	6 x 19
Pulling working load wire rope kg	129	230	359	512	698	912	1153	1424	2040
Mini. breaking load wire rope kg	215	384	598	853	1163	1520	1921	2373	3400
Theoretical weight kg/m	645	1152	1795	2560	3488	4559	5763	7119	10200
	0.034	0.061	0.096	0.144	0.188	0.246	0.311	0.384	0.553

Wire rope Ø mm	13	16	18	20	22	24	26	28	32
Construction	6 x 19	6 x 19	6 x 36	6 x 36	6 x 36	6 x 36	6 x 36	6 x 36	6 x 36
Lifting working load wire rope kg	2407	3652	4610	5692	6895	8201	9629	11159	14586
Pulling working load wire rope kg	4012	6086	7684	9486	11492	13668	16048	18598	24310
Mini. breaking load wire rope kg	12036	18258	23052	28458	34476	41004	48144	55794	72930
Theoretical weight kg/m	0.649	0.983	1.240	1.540	1.860	2.210	2.600	3.010	3.930

HIGH STRENGTH ROPE > METALLIC CENTRAL CORE 2160 N/mm²

· A rope with 8 outer strands.
· Used for lifting or hauling loads.
· Great resilience.
· High breakage load.
· Do not use to lift on direct strand for an unguided load.
· Single eye hooks are recommended.

Technical characteristics

Wire rope Ø mm	4	5	6.4	7	8	9	10	11
Construction	8 x 12	8 x 12	8 x 12	8 x 12	8 x 12	8 x 12	8 x 17	8 x 17
Lifting working load wire rope kg	264	430	844	1053	1308	1679	2081	2509
Pulling working load wire rope kg	440	717	1407	1754	2179	2798	3468	4182
Mini. breaking load wire rope kg	1320	2150	4222	5263	6538	8394	10404	12546
Theoretical weight kg/m	0.068	0.106	0.157	0.190	0.300	0.380	0.470	0.570

Wire rope Ø mm	12	13	15	16	18	20	22
Construction	8 x 17	8 x 17	8 x 17	8 x 17	8 x 26	8 x 26	8 x 26
Lifting working load wire rope kg	2999	3590	4835	5406	6834	8384	10200
Pulling working load wire rope kg	4998	5984	8058	9010	11390	13974	17000
Mini. breaking load wire rope kg	14994	17952	24174	27030	34170	41922	51000
Theoretical weight kg/m	0.680	0.810	1.090	1.220	1.540	1.900	2.300

Wire rope Ø mm	24	26	28	30	32	34
Construction	8 x 26	8 x 26	8 x 26	8 x 31	8 x 31	8 x 31
Lifting working load wire rope kg	12362	14300	16524	19237	21746	24888
Pulling working load wire rope kg	20604	23834	27540	32062	36244	41480
Mini. breaking load wire rope kg	61812	71502	82620	96186	108732	124440
Theoretical weight kg/m	2.790	3.230	3.730	4.34	4.910	5.610

SINGLE EYE HOOKS > Ref. 870

· EN1677-2.
· Oversized eyes enable easy assembly on ropes (with tag).



Dimensions



Technical characteristics

Reference	870					
CMU t	1.12	2	3.15	5.4	8	12.5
A mm	86	102	121	154	185	235
B mm	24	36	35	41	50	61
C mm	16	19	22	31	34	42
P mm	28	31	30	39	47	64
CR t	4.5	8	12.6	21.2	32	50
Weight kg	0.25	0.53	0.9	1.75	2.83	5.2

GALVANIZED NON-ROTATING STEEL ROPE

> METALLIC CENTRAL CORE 1960 N/mm² - RIGHT HAND LAID

Available to order.

- Used for unguided load lifting or hauling.
- High breaking load, great resilience.
- Single swivel hooks are recommended.

Technical characteristics

Wire rope Ø mm	3	4	5	7	8	9	10	11.5
Construction	18 x 7	18 x 7	19x7	18x7	24x7	24x7	24x7	24x7
Lifting working load wire rope kg	120	210	363	643	1102	1392	1764	2160
Pulling working load wire rope kg	200	350	605	1071	1837	2320	2940	3600
Mini. breaking load wire rope kg	600	1049	1815	3213	5510	6960	8820	10800
Theoretical weight kg/m	0.036	0.064	0.094	0.197	0.280	0.356	0.464	0.560

Wire rope Ø mm	13	14	16	18	20	22	24	26	30
Construction	24x7	24x7	18 x 7	24x7	24x7	24x17	24x17	18 x 7	24x17
Lifting working load wire rope kg	2980	3480	3357	5880	7080	8660	10520	9720	16160
Pulling working load wire rope kg	4967	5800	5595	9800	11800	14433	17533	16200	26933
Mini. breaking load wire rope kg	14900	17400	16785	29400	35400	43300	52600	48600	80800
Theoretical weight kg/m	0.779	0.907	1.030	1.508	1.883	2.284	2.751	2.710	4.243

> METALLIC CENTRAL CORE 2170 N/mm² – RIGHT HAND LAID (except* LEFT HAND LAID)

Available in stock.

Technical characteristics

Wire rope Ø mm	3	4	5	5*	6	7	7*	8	9	11.5
Construction	18 x 7	18 x 7	18 x 7	18 x 7	18 x 7	18 x 7	18 x 7	18 x 7	18 x 7	18 x 7
Lifting working load wire rope kg	160	220	460	460	610	750	750	1120	1320	2200
Pulling working load wire rope kg	267	367	767	767	1017	1250	1250	1867	2200	3667
Mini. breaking load wire rope kg	800	1100	2300	2300	3050	3750	3750	5600	6600	11000
Theoretical weight kg/m	0.037	0.083	0.111	0.111	0.15	0.185	0.185	0.29	0.328	0.588

SINGLE SWIVEL HOOKS

> Ref. 871

- EN1677-2.
- The large stirrup enables easy assembly on ropes (with tag).
- Hooks fitted to a needle or roller stop enabling very good rotation when in load.

Technical characteristics

Reference	871					
CMU t	1.12	2	3.15	5.3	8	12.8
A mm	101	121	147	185	211	265
D mm	29	32	37	47	57	66
E mm	33	31	40	46	58	56
P mm	28	29	31	40	47	64
CR t	4.5	8	12.6	21.2	32	50
Weight kg	0.4	0.77	1.41	2.53	3.9	6.81

STAINLESS STEEL ROPE

> METALLIC CENTRAL CORE – RIGHT HAND LAID - Rope 7x19

· Use by the sea side or outdoor with specific usual requests (highly aggressive environments).

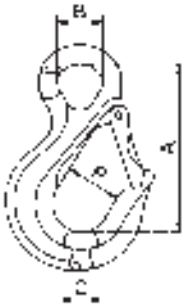
Technical characteristics

Wire rope Ø mm	2.5	3	4	5	6	7	8
Construction	7x19	7x19	7x19	7x19	7x19	7x19	7x19
Lifting working load wire rope kg	68	92	166	260	376	512	666
Pulling working load wire rope kg	113	153	277	433	627	853	1110
Mini. breaking load wire rope kg – Classification MBL kN 1570	340	460	830	1300	1880	2560	3330
Theoretical weight kg/m	0.024	0.034	0.061	0.095	0.138	0.187	0.243

Wire rope Ø mm	9	10	12	14	16	18
Construction	7x19	7x19	7x19	7x19	7x19	7x19
Lifting working load wire rope kg	844	1042	1500	2040	2660	3683
Pulling working load wire rope kg	1407	1737	2500	3400	4433	6138
Mini. breaking load wire rope kg – Classification MBL kN 1570	4220	5210	7500	10200	13300	18414
Theoretical weight kg/m	0.308	0.381	0.548	0.746	0.974	1.23



Dimensions



Single stainless eye hook – Ref.872

SINGLE STAINLESS EYE HOOKS

> Ref. 872

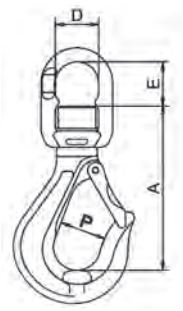
· EN1677-2-316L
· Oversized eyes enable easy assembly on ropes (with tag).

Technical characteristics

Reference	872			
CMU t	0.7	1.2	1.6	2.7
A mm	86	102	121	154
B mm	24	26	35	41
P mm	28	29	31	40
C mm	16	19	22	31
CR t	2.8	4.8	6.4	10.8
Weight kg	0.25	0.53	0.9	1.75



Dimensions



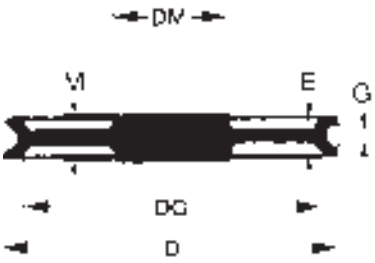
Single swivel hook – Ref.871

STEEL BEARING SHEAVES FOR WIRE ROPE > Ref. 503

· Forged steel, except the diameter 150 mm which is machined steel.
· Yellow chromated galvanized finish.
· Bore on sealed bearings.



Dimensions

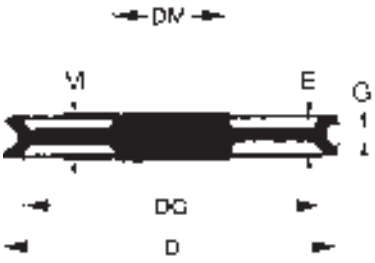


Technical characteristics

Reference	503						
External Ø (D) mm	150	200	297	375	425	510	570
Tread sheave Ø (DG) mm	133	172	257	320	355	440	500
Force on rope kg. at 90°	1000	1600	4000	6300	8000	12500	16000
Wire rope Ø mm	6/7	8/9	12/13	15/16	17/18	20/22	22/24
Axis Ø mm	25	35	60	80	90	110	120
Bearing mm	6205 2RS	6207 2RS	6212 2RS	6216 2RS	6218 2RS	6222 2RS	6224 2RS
Weight kg	2.1	4.4	12.5	24.5	35	59	115

CAST IRON WIRE ROPE SHEAVES > Ref. 502

Dimensions



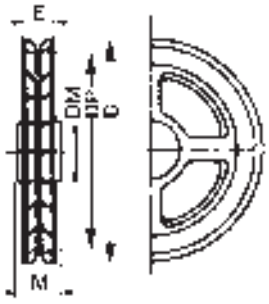
Technical characteristics

Reference	502			
External Ø (D) mm	85	110	150	240
Tread sheave Ø (DG) mm	66	88	122	200
Capacity kg	250	500	1000	2500
Wire rope Ø mm	5	7	8	14
Rim width (E) mm	15.5	19.5	24	36
Hub width (M) mm	20	24	30	40
Ø Hub (DM) mm	28	33	40	58
Weight kg	0.4	0.7	1.5	4.85



STEERING WHEEL FOR 6 x 18 CHAIN > Ref. 540

Dimensions



Technical characteristics

Reference	540	
D mm	200	300
Bb. pans mm	15	23
DP mm	172	263
DM mm	50.5	60
E mm	37	40
M mm	41	42
Weight kg	3	7

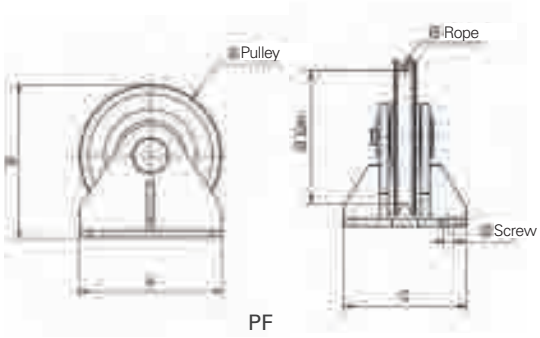


FIXED PULLEYS WITH SUPPORT PLATES > Ref. PF



Ref. PF

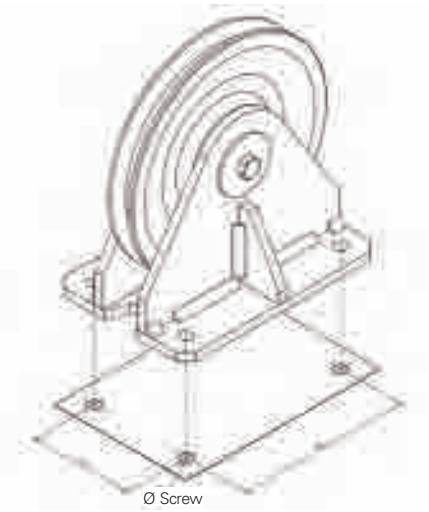
Dimensions



PF

Technical characteristics

Reference	PF								
	4	5	6/7	8/9	12/13	15/16	17/18	20	22/24
A mm	80	100	150	200	295	375	425	510	570
B mm	87	108	161	215	312.5	394.5	452.5	543	610
C mm	72	90	135	160	200	240	270	330	370
Ø E mm	70	85	133	172	250	320	355	440	500
Screw Ø mm	6.5	8.5	11.5	14	18	20	26	32	32
F mm	51	63	95	115	140	170	190	230	260
G mm	59	73	110	155	235	300	340	410	460
Wire rope Ø mm	4	5	6 to 7	8 to 9	12 to 13	15 to 16	17 to 18	20	22 to 24
Max. capacity (kg) at 90°	500	850	1400	2300	5700	7800	10300	13000	16000
Max. capacity (kg) at 180°	350	600	1000	1600	4000	5500	7300	9200	11500
External Ø mm	80	100	150	200	297	375	425	510	570
Weight kg	1	1.5	5	11	29	54.6	88.4	151.7	265

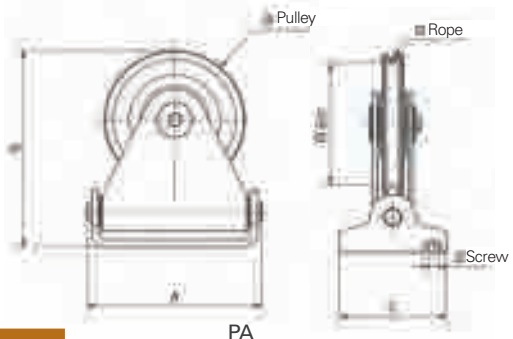


ARTICULATED PULLEYS WITH SUPPORT PLATES > Ref. PA



Ref. PA

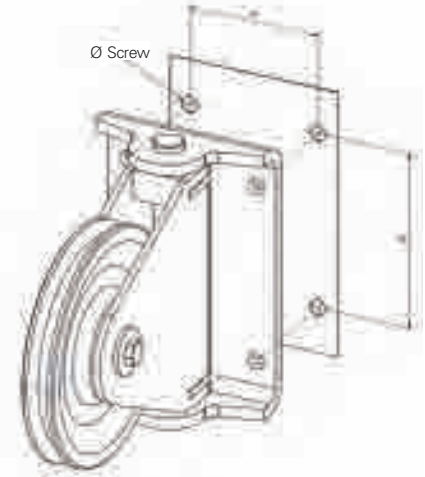
Dimensions



PA

Technical characteristics

Référence	PA			
	6/7	8/9	12/13	15/16
A en mm	198	247	348	434
B en mm	224	281.5	397.5	492.5
C en mm	125	150	200	240
Ø E mm	133	172	250	320
Screw Ø mm	12	14	18	23
F mm	95	115	140	170
G mm	110	155	235	300
Wire rope Ø mm	6 to 7	8 to 9	12 to 13	15 to 16
Max. capacity (kg) at 90°	1400	2300	5700	7800
Max. capacity (kg) at 180°	1000	1600	4000	5500
External Ø mm	150	200	297	375
Weight kg	6.8	13.2	34.1	62.7



NEW

FITTED PULLEYS > PE

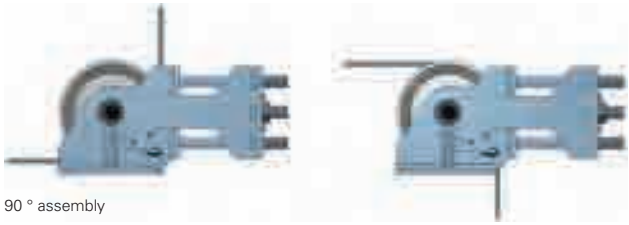
- Pulley with force detection cutting the electricity to the winch as soon as there is overloading (up to 25 % in excess of nominal load).
- Various application fields (industry, Building and public works…).



Technical properties

- Easy to install.
- Factory tare.
- Electro-mechanical operation: the device does not use any electronic equipment, it acts as a simple switch.

Rope outlets

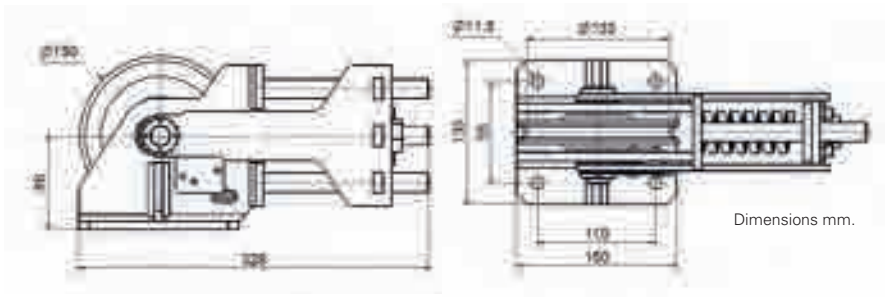


90 ° assembly



180 ° assembly

Dimensions



Dimensions mm.

Applications



1.Fitted pulley used during lifting operation.

Technical characteristics

Reference	PE300	PE500	PE1000
Rope Ø mm	5/6/7	6/7	6/7
Dimensions (Lxlxh) mm		328 x 135 x 161	
Capacity on wire (angle between 2 falls) kg at 180°	150	250	500
Capacity on wire (angle between 2 falls) kg at 90°	300	500	1000

FIXED CLEVIS PULLEY > Ref. 504

· Steel pulleys, bichromate finish, forged hook.
· For redirection of wire rope, reeving in order to increase the capacity of a winch.

Dimensions



Technical characteristics

Reference	504				
E mm	160	235	330	425	510
F mm	140	200	280	355	450
K mm	65	75	95	105	160
H mm	420	535	715	890	1180
P mm	43	48	56	71	80
Max. rope Ø mm	6	9	14	16	20
SWL on hook kg	1250	2000	4000	8000	12500
SWL on one fall kg	625	1000	2000	4000	6250
Weight kg	6	11	25	47	90



OPENING CLEVIS PULLEY > Ref. 520

· Steel pulleys, bichromate finish, forged hook.
· For redirection of wire rope, reeving in order to increase the capacity of a winch.
· Clevis opening to avoid unrolling the rope completely.

Dimensions



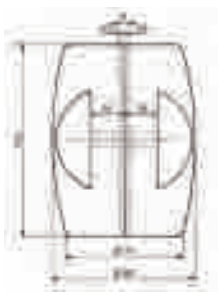
Technical characteristics

Reference	520					
E mm	100	160	235	330	425	510
F mm	80	140	200	280	355	450
K mm	60	65	75	95	105	160
H mm	320	420	535	715	890	1180
P mm	23	43	48	56	71	80
SWL on hook kg	630	1250	2000	4000	8000	12500
SWL on one fall kg	315	625	1000	2000	4000	6250
Max. rope Ø mm	5	6	9	14	16	20
Weight kg	2.5	6	11	25	47	90



COUNTERWEIGHT > Ref. CP

Dimensions



Dimensions mm.

Technical characteristics

Reference	CP 3.6
Weight kg	3.6
Max. rope Ø mm	8



EC REGULATIONS (Directive 2006/42 / EC): This equipment must be checked before and after each use by an authorized person. Maintenance by the manufacturer or by a center approved by him, must be carried out: at least once a year (depending on frequency of use) and systematically after a fall or when in doubt about the safety of the device.

LOAD FALL ARRESTERS FROM 200 TO 500 KG > Ref. CHL-L

LOAD FALL ARRESTERS FROM 500 TO 5,000 KG > Ref. CHL-BIG

- Ensures safety function in case of failure of the main loads holding or transporting systems.
- Numerous fields of application (industry, public works, theater, gym arena, amusement park...)



Ref. CHL-L



Ref. CHL-BIG

Technical Properties

- Anti-corrosion treated steel cover.
- Galvanized steel bolts.
- Integrated energy absorber reducing the effort on the structure.
- Easy to install.
- Vertical fixation in the axis of the load.
- The fixation points must be tested and the structure must have a resistance equal to 6 times the static load.
- Locking system by double steel pawls.
- Standard unwinding speed: 20m/min (setting in factory on request).
- Short distance braking.
- Different capacities, cable lengths, speeds and number of cycles greater than 50 per day, please contact us.

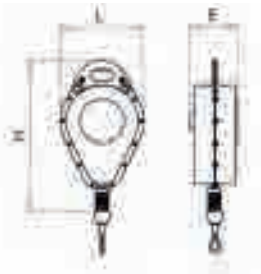
Ref. CHL-L

- Maximum 50 cycles per day.

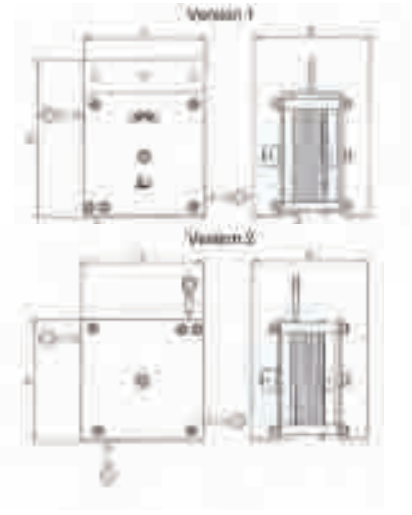
Ref. CHL-BIG

- Upper and lower possibility of anchoring.
- Can be used with diverting pulley.
- Two available versions:
  - > Bottom or lateral wire rope exit (version 1),
  - > Bottom, top or lateral wire rope exit (version 2).

Dimensions



Dimensions mm.



Technical characteristics

Models	CHL-L									
Maximum load kg	200			250			300		500	
Rope length m	10	20	30	10	20	30	15	25	12	20
Weight kg	6	10	15	6	10	15	13	15	16	17
L mm	189	245	285	189	245	285	245	285	285	285
H mm	340	415	500	340	415	500	415	500	500	500
E mm	128	144	146	128	144	146	144	146	146	156

Models	CHL-BIG							
Maximum load kg	500		1000		2000		3000	5000
Rope length m	20	30	12	25	10	20	15	10
L mm	330	330	370	455	370	620	620	620
H mm (version 1/version 2)	428/328	-/328	480/370	565/-	480/370	735/640	735/640	735/640
E mm	263	298	353	336	353	390	390	390
Weight kg	37	85	78	145	260	260	260	260

LIFTING DEVISE MECHANISM CLASSIFICATION

To determine the group for your lifting device, winch or block and tackle, three essential parameters are to be taken into account:

1 Maximum load to be lifted

> Including the weight of the cable and any lifting accessories (hook, etc.) except where these are of a total weight of 5 % or less of the load to be lifted.

2 Load condition

> Details in what proportions the lifting device is used at maximum load or reduced load.

> For an exact classification, it is preferably to calculate the average cubic value (k) using the formula below:

$$k = \sqrt[3]{(\beta_1 + \gamma)^3 \cdot t_1 + (\beta_2 + \gamma)^3 \cdot t_2 + ... + \gamma^3 \cdot t_\Delta}$$

where:

$\beta =$ effective or partial load / nominal load	$t =$ operating time with effective or partial load + dead weight / total operating time
$\gamma =$ dead weight / maximum load	$t\,\Delta =$ operating time with dead weight only / total operating time

> Thus a distinction is made between four characterised load conditions:

Light	Lifting devices subjected exceptionally to the maximum load and normally to very light loads.	$k \leq 0.5$
Medium	Lifting devices subjected fairly often to the maximum load and normally to light loads.	$0.5 < k \leq 0.63$
Heavy	Lifting devices subjected frequently to the maximum load and normally to medium loads.	$0.63 < k \leq 0.8$
Very heavy	Lifting devices subjected regularly to loads close to the maximum load.	$0.8 < k \leq 1$

3 Operating class

> This is the average operating time per day, on the basis of 250 working days a year.

> The lifting device is considered to be in operation when it is moving; conversely, it is not during stoppage times, between raising and lowering for example.

These three parameters thus provide the means for classifying the devices into groups of mechanisms in accordance with this table you can use to determine the group for the lifting device you need:

DUTY FACTOR	Operating class (or average daily operating time in hours, on the basis of 250 working days a year)							
→ **Light**	30 mn	1 h	2 h	4 h	8 h	16 h	More than	-
→ **Medium**	15 mn	30 mn	1 h	2 h	4 h	8 h	16 h	More than
→ **Heavy**	7 mn	15 mn	30 mn	1 h	2 h	4 h	8 h	16 h
→ **Very heavy**	-	7 mn	15 mn	30 mn	1 h	2 h	4 h	8 h
				↓ **Mechanism classification**				
according to FEM rules	**1Dm**	**1Cm**	**1Bm**	**1Am**	**2m**	**3m**	**4m**	**5m**
according to ISO standard	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**	**M7**	**M8**

Let us take an example of calculation to determine a mechanism group and the choice of the winch which matches:

· Data:

> Maximum load to be lifted 5.000 kg

> Load condition 50% of time at the nominal load (for the lifting device)
50% of time under no load

> Operating class 4 hours a day, 250 days a year.

· In view of these elements:

> The characterised load condition (k) is thus: k = 0.79 =>« heavy »

> The mechanism group determined is: 3m (FEM) / M6 (ISO)

> The choice of winch in the HUCHEZ range will be: 5000 PL, pages 52-54 of the catalogue
7500 TE, pages 44-47 of the catalogue

Our technical sales staff is at your disposal to help you determine the characterised load condition corresponding to your case.



General

General

SAFETY COEEFFICIENTS

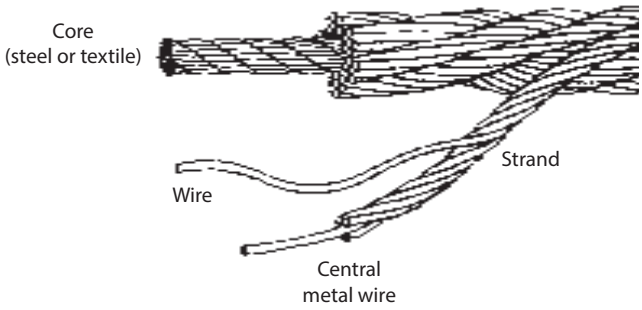
> Recommended by Machines Directive 2006/42/EC.

Lifting: Coef. 5

Pulling: Coef. 3

- HUCHEZ winches are calculated for rope with these safety ratios.
- The D/d ratio (drum Ø/rope Ø) is a key factor in guaranteeing the lifespan of the rope. It is determined according to the classification of the device mechanisms (FEM/ISO):

FEM/ISO	D/d ratio
M1 - 1Dm	11.2
M2 - 1Cm	12.5
M3 - 1Bm	14
M4 - 1Am	16
M5 - 2m	18
M6 - 3m	20
M7 - 4m	22.4
M8 - 5m	25



ROPE DIAMETER MEASUREMENT

Correct measurement with caliper



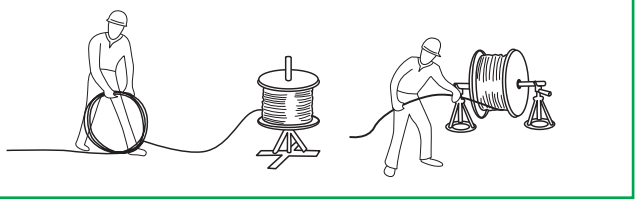
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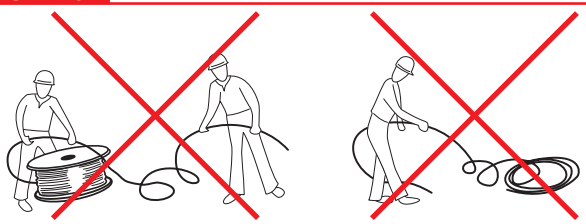
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ROPE HANDLING

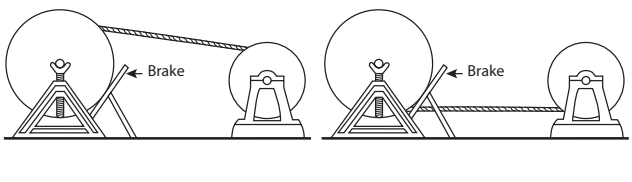
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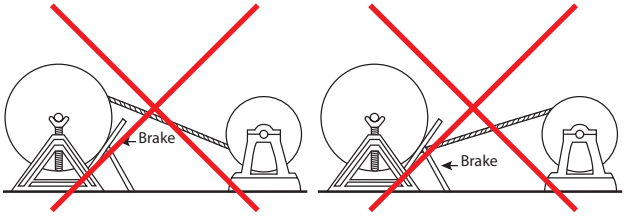
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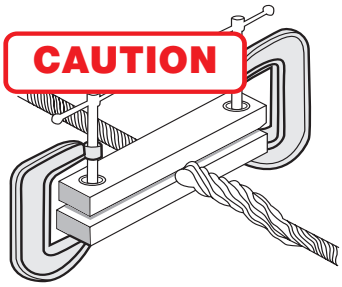
WINDING THE ROPE ON THE DRUM

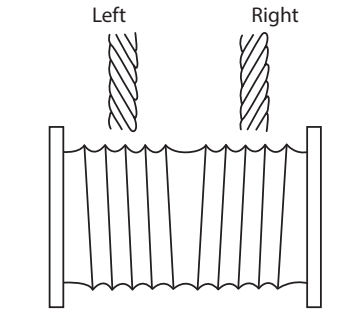
- To wind the rope, a right-hand spiral must first be made.
- The first layer must be wound in a compact manner and under tension.
- The rope wind direction adapted to the drums must be used. This applies both to smooth and grooved drums.
- Certain models have a grooved drum going two ways: one part of the grooves to the right, the other to the left. Some ropes are more sensitive to this set-up than others.
- In all cases, the layers must be wound on the drum with sufficient pretension (5-10% of the rope's individual average load). If this is not carried out, the rope will be subjected to crushing and premature flattening caused by the loaded upper layers.
- A loss of pretension can be observed when it is started up. In this case, the winding procedure must be restarted at regular intervals
- The lifting height, the frequency of use and even the rope diameter will determine what type of rope is most appropriate.
- In certain cases, it is best to use the roping direction depending on the drum layers most used (in the event of multi-layer use).

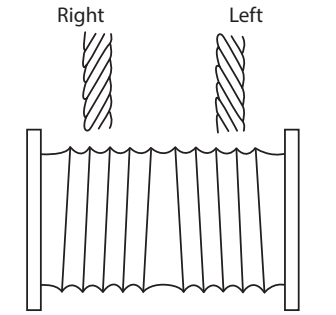
> If the first rope layer on the drum is only used as a "guide" it will be best to use the rope direction of the second layer on the drum.

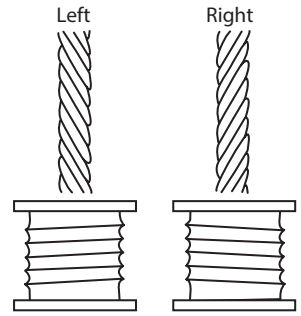
DO NOT DO

- This method of tensioning the rope on the drum will destroy it.

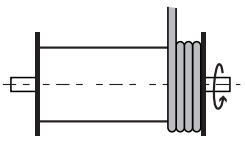




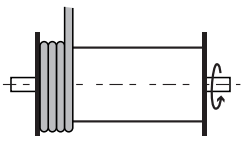




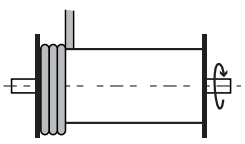
The easiest way to determine the right combination wiring / grooving is to observe the drum axis and the axis of rope: they must be in reverse.



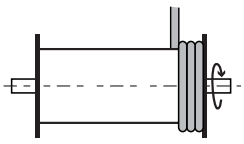
Upper winding from right to left, use wiring left



Upper winding from left to right, use wiring right



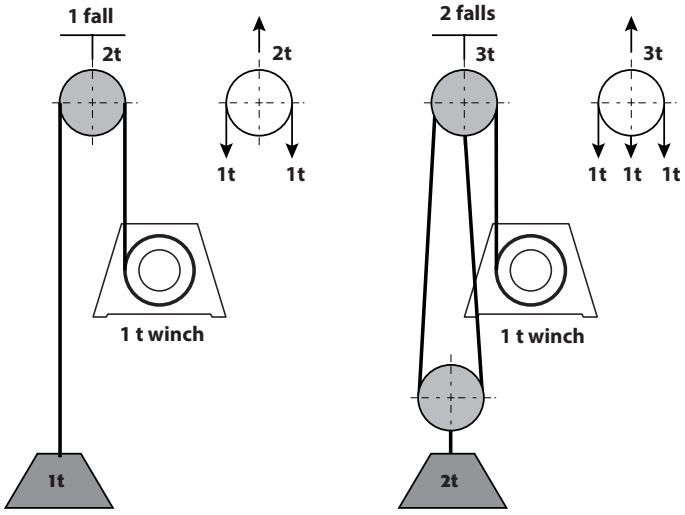
Lower winding from left to right, use wiring left



Lower winding from right to left, use wiring right

USE WITH PULLEY OR PULLEY BLOCK

Principe of reeving:

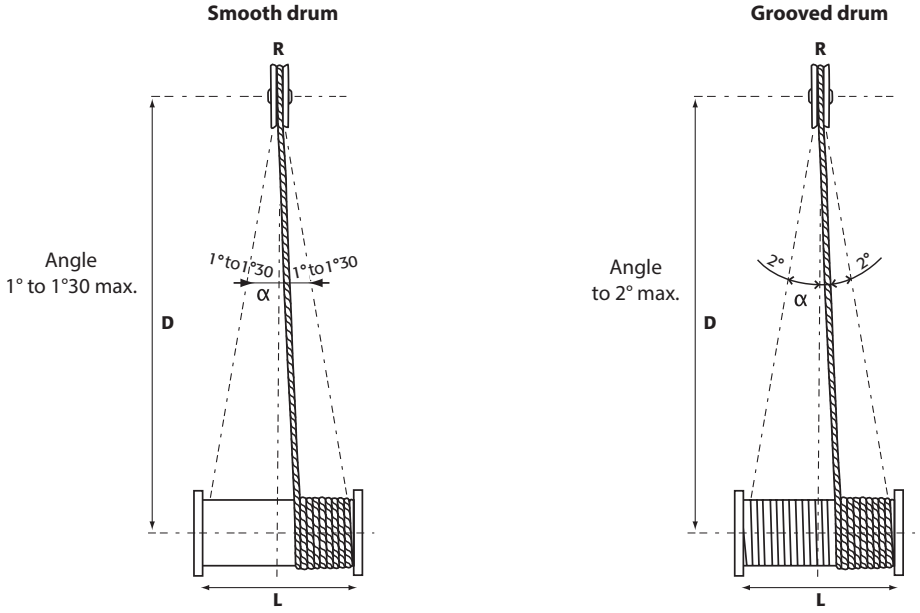


Deflection angle

· α= 1.5° max. on smooth drum

· α= 2° max. on grooved drum

> In practice, the distance D minimum must be: D min = 20 x L



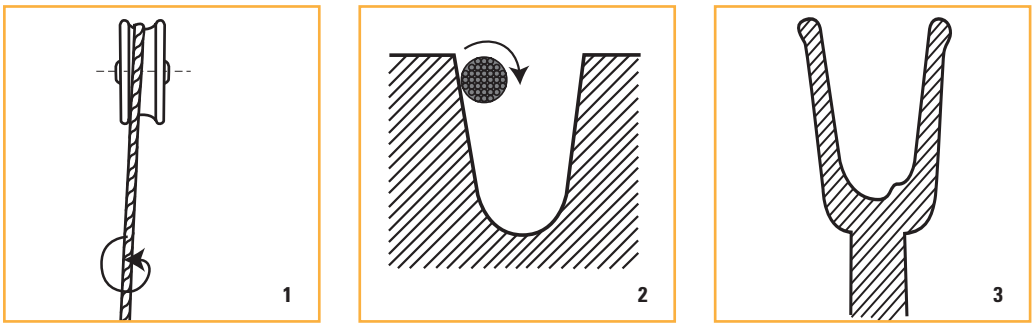
Excessive deflection angle

> An excessive deflection angle causes:

1 Dangerous rope winding,

2 Fast wear of the groove and the rope,

3 Excessively tight winding on the drum or overlapping.



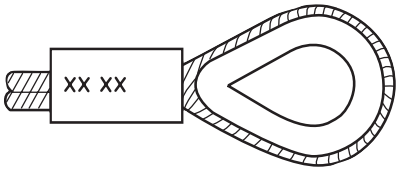
> Tests made by Stuttgart University indicate the following shortening of the rope life according to the slant angle:

Deflection angle	Longevity factor
0°	1
1°	0.9
2°	0.75
3°	0.70
4°	0.67

ROPE ENDS

· A winch's safety and correct operation largely depends on the rope end on the winch and the load. It is best to have an expert check the rope ends and the ropes themselves. The rope end illustrated on the right is one of the authorised ends for lifting. However, bear in mind that crimping also causes 10% loss of breaking load.

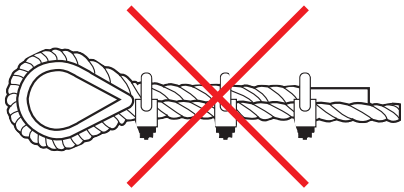
« Talurit » crimping with tag



IMPORTANT:

End prohibited when lifting.

· The rope holders may in no case be used as rope endings in "lifting".

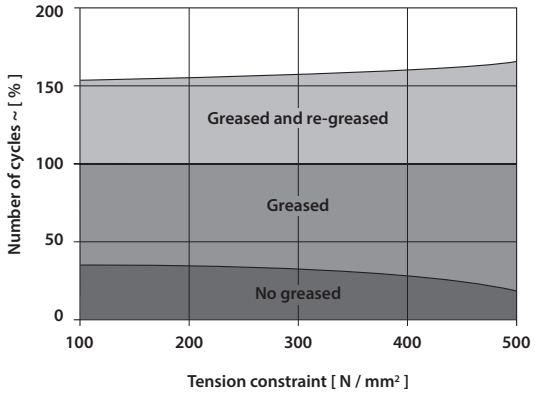


ROPE RE-GREASING

· When it is manufactured, the rope receives considerable greasing that must be regularly renewed. The ropes may therefore be re-greased in view of their use, particularly along the areas subject to bending.

· If the operation should prevent re-greasing, the rope life will be shortened and inspections must be made more frequently.

· The influence of greasing and re-greasing on the life span is illustrated on the right:



INSPECTIONS

> Daily visual inspection.

> Periodical inspections by qualified persons depending on the conditions and time of use of the apparatus, its type and its classification.

> Special inspections if the lifting apparatus is out of service for 3 months or more, or after damage to the rope or attachment points.

IMPORTANT:

Examples of a few possible defects associated with the ropes (non-exhaustive list):

· "Corkscrew" deformation

· "Basket" deformation

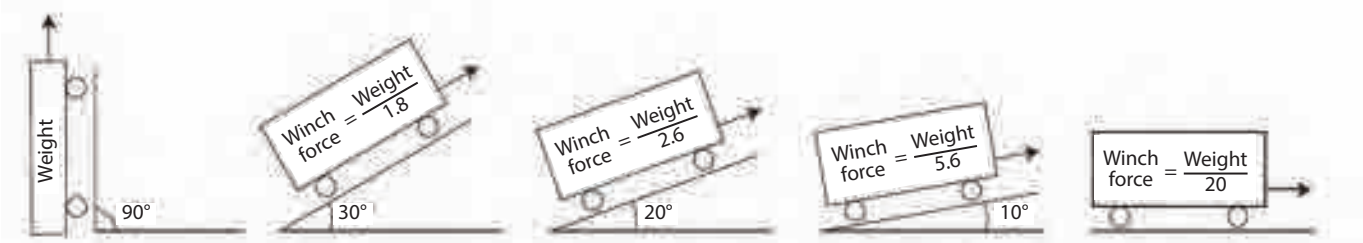
· Strand extrusion

· External wear



Source : « Accessoires de levage », INRS

Calculation of traction forces



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> site lifting

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These PROFESSIONAL GENERAL TERMS AND CONDITIONS are available for the supply of CATALOGUED HANDLING EQUIPMENT.
For SPECIFIC EQUIPMENTS you have to refer to the corresponding PROFESSIONAL TERMS AND CONDITIONS.

A > EQUIPMENT AND THEIR FITTINGS

1 > GENERAL PROVISIONS

1.1 > Contract formation

Every order requires the purchaser's acceptance of these general terms and conditions. Therefore, any provisions that are contrary hereto and, particularly all general conditions that were previously transmitted by periodic circulars, shall not be enforceable against the seller unless the latter agrees thereto in writing.
A contract of sale is complete only after the seller's written acceptance of the purchaser's order. An accepted order shall not be cancelled without the seller's consent.

1.2 > Specifications regarding the supply

Characteristics mentioned in catalogues, prospectuses and all other advertising materials and documents are given purely as an indication. The seller reserves the right to make any changes in its designs that it deems appropriate, even after acceptance of the orders, without, however, affecting the essential characteristics and performance.

1.3 > Tests and acceptance

The costs of tests and acceptance requested by the purchaser are borne exclusively thereby.

1.4 > Estimate (for repair)

The costs necessary for the issue of a repair estimate, such as the time of assembly or re-assembly, and travel expenses, are invoiced when the estimate is not followed by an order.

2 > DELIVERY

The times for delivery commence to run after the sending of the acknowledgement of receipt and receipt of the instalment specified in paragraph 5. They are given purely as an indication and in total good faith.
Whatever the purpose of the equipment and terms of sale, delivery is deemed to be made in the seller's plants and stores.
Delivery is advised by a simple notice of availability. Such a notice signifies either the direct remittance of the equipment to the purchaser, delivery of the equipment in the seller's plants or stores to a shipper or carrier designated by the purchaser or, in the absence thereof, by the seller.
The purchaser must take possession of the equipment within ten days of the notice of availability. If the purchaser does not take the equipment at the location and on the date that are agreed, and provided that its delay is not due to an act or omission of the seller, the purchaser must make the payments as contractually specified, with delivery deemed to have been made. In such event, the seller handles the storage at the purchaser's risk and peril, insofar as the equipment has not been individualized.
In no event shall an exceeding of the specified time result in cancellation of the order, in the payment of damages and interest or in the application of any penalties, unless expressly confirmed in the acknowledgement of receipt of the order.
«The equipment is delivered, along with its instruction manual », which the user shall consult before putting the equipment into service.

3 > RESERVATION OF OWNERSHIP AND TRANSFER OF RISKS

3.1 > The seller retains full ownership of the subject equipment until full payment of the principal price and ancillary items.

3.2 > As of the date of delivery, the purchaser assumes liability for damage that this equipment might incur or cause for any reason whatsoever.

3.3 > The equipment shall not be resold or transformed until full payment thereof without the seller's prior consent. However, in the case of a resale, the seller may exercise a right to follow the property and claim the amounts due directly from the end customer.

4 > TRANSPORT AND INSURANCE

Any measures that the seller might take in the interest or for the account of the purchaser regarding insurance, transport, etc… do not contravene the principle of delivery in its plants or stores.
The fact of possibly including the carriage cost in the price is not regarded as departure from the principle of delivery in the seller's plants or stores.
Any transport handled by the seller itself, whether or not the costs are charged to the purchaser, is deemed to be made under a carriage contract separate from the contract of sale.
In the absence of instructions, the seller undertakes the shipment in the purchaser's best interests. The equipment is insured only at the purchaser's express request.
In all circumstances, it is up to the purchaser to effectuate all verifications, express any reservations upon the arrival of the equipment, and, if necessary, initiate against the carrier the actions specified by article 103 and those that follow of the Commercial Code, within the times set by article 105.

5 > PRICES, TERMS AND DELAY OF PAYMENT

Unless otherwise stipulated, the payments are made at the domicile of the seller's business, net and without discount, and are due under the following terms:
> 1/3 by cheque upon placement of the order (instalment)
> 1/3 by cheque upon delivery
> the balance by accepted draft, payable from the date of delivery within the customary time of 30 days, whether for products and/or services.
Any provision or request meant to specify or obtain a time of payment that exceeds 30 days, which time limit is customary in the mechanical engineering industries, may be deemed to be abusive pursuant to article L. 442 6 7° of the Commercial Code, unless the customer provides a sound reason.
The invoice indicates the date on which the payment must be made. All amounts that are paid prior to delivery are deemed to be installments, and thus do not give the purchaser any right to cancel the contract of sale.
Any non-payment of an installment on the agreed date and any refusal to accept a bill of exchange when presented will lead to:
> on the one hand, ipso jure and without prior notification, in accordance with article L441-6 of the Commercial Code, from the very first day overdue:
- the application of late payment interest equal to the most recent refinancing rate defined by the European Central Bank increased by ten points (modernisation of the economy law - LME - No.2008-776 of 4 August 2008), without prejudice to any damages and interest which may be claimed;
- the application of a flat-rate compensation for cost recovery fees totalling 40 euros (European directive 2011/7 of 16 February 2011, law 2012-387 of 22 March 2012 and decree 2012-1115 of 2 October 2012),
- additional compensation, based on documentary proof, if the cost recovery fees indicated are greater than this flat-rate compensation rate. Furthermore, any outstanding payments would become payable immediately.
> on the other hand, if the vendor deems fit:
- the suspension or cancellation of all orders in progress,
- the cancellation, ipso jure, of the sales contract one month after the official demand, sent to the purchaser by registered letter with acknowledgement of receipt, to comply with their legal obligations. In this case, and without prejudice to any damages and interest which may be claimed, the purchaser must, in addition to their obligation to return the goods, pay the vendor a termination fee set at 20% of the price as evaluated at the date of termination. This fee will be charged to the payments already received.

6 > WARRANTY

6.1 > Scope of warranty

The seller commits that it will remedy any operating deficiencies due to a defect in the design, materials or performance (including assembly if it is responsible for this operation), within the limits of the provisions set forth hereinafter.
The warranty does not cover normal wear and tear, breakdowns due to a lack of maintenance or supervision, poor assembly or electrical connection, or, generally, to any manipulation or use failing to comply with the manufacturer's written instructions (including the normal requirements of use in the operating instructions) or to an event of force majeure. It does not apply to paint and surface coatings.
The warranty immediately ceases if the validity of the declaration of conformity expires because the purchaser used spare parts other than the original ones, or performed repair or modification work without the seller's written agreement.
In the event of use of the equipment outside of metropolitan France, the seller may change the scope and terms of warranty defined in these general terms and conditions.
Unless otherwise stipulated, no warranty applies to used equipment; alienation of the equipment by the first user terminates the warranty.

6.2 > The purchaser's obligations

In order to have the benefit of this warranty, the purchaser must immediately advise the seller in writing of any defects that it observes in the equipment and provide all proofs regarding the reality of said defects; it must facilitate the observation and correction of these defects.

6.3 > Effective date and duration

The standard warranty is for a period of one year unless otherwise specified in the operating manual for the product concerned. It commences on the date of delivery as specified in paragraph 2, and terminates either at the period of one year or at the end of the specified duration of use, whichever occurs first.
If the conditions for using the equipment specify a labour regime that requires more than one work station of 8 hours, the duration of warranty may be reduced.
If the effective date of warranty is deferred, the warranty period may be extended for a period equal to the period of delay. However, if such delay is beyond the seller's control, the extenstion shall not exceed 3 months.

6.4 > Modes of exercising the warranty

During the period of warranty, the seller has the duty to replace the parts that are deemed to be defective after examination by its technical service or, if it so prefers, to repair them free of charge. The warranty excludes any other services or indemnification.
Repairs under the warranty are generally made in the seller's workshops, with the purchaser responsible for sending the equipment to be repaired and the defective parts thereto at the purchaser's expense.
When work on the equipment is performed outside of its workshops, the travel and accommodation expenses incurred by the seller for its agents are billed to the purchaser. However, the labour costs related to the disassembly or re-assembly of these parts are incurred by the seller when these operations are carried out by its employees or agents.
The replaced parts become the seller's property and must be returned thereto at the purchaser's expense.
Replacement parts are supplied free of charge ex-factory of the seller. Reshipment of repaired equipment is at the purchaser's expense.
Replacement parts and repaired parts are warranted under the same terms and conditions as those for new parts and for the same length of time. For the other components, servicing under warranty has the effect of extending the warranty by the length of time during which the equipment is tied up.
For items of a particular relative importance that are not manufactured by the seller itself and which carry the brand of specialized manufacturers, the warranty that may vary according to the manufacturer is that which is provided thereby.

7 > DISPUTES

In the event of dispute regarding a supply or its payment, the Commercial Court of Beauvais has sole jurisdiction whatever the terms and conditions of sale and the term of payment, even in the event of an action against a guarantor or a multiplicity of defendants.
However, prior to or concomitantly with the initiation of any legal, administrative or arbitration proceeding, the parties shall have recourse to an expert's opinion pursuant to the regulation of the Codified Amicable Expert's Opinion (E.A.C.) available at :
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