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Electric winch

TRAKZIO

Instruction manual EN

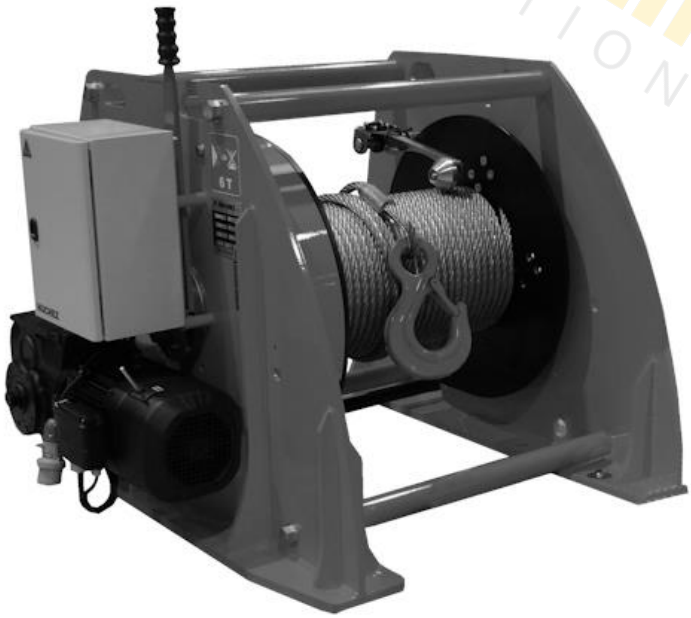
Model .....

Serial number .....

Weight of the winch .....

Customer order no. .....

PRO-LIFT SOLUTIONS



CE

316.49.20/1

PRO-LIFT SOLUTIONS

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1 – Contents

All users must read the set-up instructions carefully before using the product for the first time. These instructions should enable the user to familiarize themselves with the winch and use it to its full capacity. The set-up instructions contain important information about how to use the winch in a safe and correct manner. Compliance with these instructions helps to avoid danger, reduce repair costs, reduce stoppage time and improve the reliability and service life of the winch. The instruction manual must always be available in the place where the winch is being used. In addition to the set-up instructions and regulations concerning the prevention of accidents, the work safety and trade rules in force in each country must also be respected.

This equipment is governed by European regulations and more specifically Directive 2006/42/EC on machinery, EMC Directive 2004/108/EC and LVD 2006/95/EC, as well as the EN 14492/1 standard.

The winches in the TRAKZIO series are designed to move loads using a suitable steel rope. They have been designed to perform pulling operations within the defined load capacity limit and with safety factor 3 (static against sudden failure).

- The capacity indicated on the winch corresponds to the maximum capacity of use (MCU); in no event should this capacity be exceeded.
- **THIS WINCH CAN IN NO CIRCUMSTANCES BE USED TO LIFT PEOPLE.**
- Do not begin moving the load until you have attached it correctly and checked that all the personnel are outside the danger zone.
- Before use, the operator must always check that the machine, rope, hook, markings and moorings are in good working order.
- The operator must check that the load is attached in such a way that the winch, the cable and the load place neither the operator nor any other person in danger.
- The winches can be used at ambient temperatures ranging from -10°C to +50°C. Please consult the manufacturer in the event of extreme conditions of use.

Important: In the event of an ambient temperature below 0°C, the brake must be tested to ensure that there are no operating faults resulting from the freezing conditions.
Use of winches requires strict compliance with the accident prevention and safety measures in force in the country.

The data concerning the resistance of the steel rope and its fastenings to heat must be available on request from the manufacturer and must be respected.

- HUCHEZ cannot accept any liability for the consequences resulting from the use or installation of equipment not provided for in the present instructions or for the consequences of disassembly, modifications or replacement of original parts or components with parts or components from other sources without the written agreement of HUCHEZ.

YOU MUST ALSO RESPECT THE REGULATIONS APPLICABLE IN YOUR COUNTRY.

2 – Safety instructions

Before using the equipment, check that there are no causes of overloading such as: adhesion to the ground, suction, jamming, etc. of the load.

As the operator of the winch, you are responsible for your own safety and the safety of your colleagues in the work zone of the machine.

The operator must respect all the following safety information, without exception, concerning the handling and operation of the winch as well as the references to other sections of this instruction manual. Non-compliance with these instructions increases the level of risk.

- Only the people designated by the company are authorized to operate the winch

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- Before using the winch for the first time, familiarize yourself with its conditions of use. To this end, read the present instruction manual carefully and in its entirety and perform all the operations described herein one after the other.
- Inform your departmental manager or the safety officer of any malfunction so that the fault can be repaired immediately.
- Respect the directives of the industrial accident prevention organisations such as, in France, the Caisse Régionale d'Assurance Retraite et de la Santé au Travail (C.A.R.S.A.T.) and the Health and Safety Committee (HSC) of your company, if one exists.
- You must scrupulously respect the information in section concerning the CONDITIONS OF USE (above) and the WORK ROPE (page 15)
- The operator(s) must have an unimpeded view of the load.
- Please ensure that the operator is qualified to operate the machine in the conditions provided for in this manual. This will ensure the safety of both people and the environment.
- Do not transport loads when there are personnel inside the danger zone.
- Do not leave a load with the rope taut unsupervised.

In addition to the above instructions, we must warn you against all incorrect use or handling listed below. It is dangerous and prohibited to:

- unwind the drum completely (retain 2 to 3 residual windings).
- pull at an angle.
- use ropes with a diameter and texture which do not correspond to the specifications in the present manual.
- use damaged ropes or ropes with splices.
- grab or touch a moving cable or a rotating drum.
- use hooks without a latch, which do not correspond to the loads indicated on the winch or which are in poor condition.
- insert objects into moving parts.
- work on loaded winches or when the rope is taut.
- use the winch rope as a towing chain.
- drum on the control box (overheating of the engine and electrical equipment).
- Place hands or clothes, etc. in contact with moving parts, in particular the areas where the rope is wound in/out.

3 - Warranty

Our electric winches are guaranteed for 2 years from the date of shipment (ex-works).
The seller undertakes to repair any operating fault resulting from a fault in the design, execution, components or materials themselves.

The warranty does not cover wear and tear or damage resulting from a lack of regular or periodic maintenance. It does not cover damage resulting from a lack of supervision, incorrect handling or an incorrect use of the machines, in particular overloading, pulling at an angle, under or overvoltage or incorrect connection.

The warranty does not apply to any disassembly, modification or replacement of mechanical or electrical parts undertaken without our agreement or by a non-approved operator. The warranty only applies to the manufacturer's original spare parts. During the warranty period, the seller must replace or repair any parts recognized as faulty after inspection by the qualified and approved department, and this free of charge.

The warranty excludes all other services or compensation.

Repairs undertaken within the framework of the warranty are, in principle, performed in the seller's workshops or the workshop of their representative approved by the manufacturer. When the intervention on the equipment occurs outside their workshops, the seller must cover the labour costs related to the disassembly or reassembly of these parts if these operations are performed exclusively by their personnel or their representative approved by the manufacturer. The parts replaced become the property of the seller and must be returned to them at their cost.

In the case of components with a particular relative importance not manufactured by the seller themselves and which carry the brand of specialist manufacturers, the warranty, which may vary according to the manufacturer, is the same as that agreed by this manufacturer.

4 – Reception of the equipment

Conduct a visual inspection of the packaging to ensure that it is in good condition.

In the event of an anomaly, issue the usual reserves.

Check that the winch corresponds to your order.

5 – Obligatory regulatory checks by the user

This equipment has been designed to be tested:

- in a dynamic situation, with coefficient 1.1
- in a static situation, with coefficient 1.25

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The users are required to comply with the standards in force in their country.

With regard to France:

Order of 1st March 2004 relating to the verification of lifting machines and accessories:

The modifications to the regulation relating to the use and verification of lifting machines and accessories, which came into effect on 1st April 2005, impose new obligations on all users:

- The suitability inspection which involves checking that the lifting machine is suitable for the work that the user intends to carry out as well as for the risks to which workers are exposed and that the intended operations are compatible with the conditions of use for the machine defined by the manufacturer.
- The assembly and installation inspection which involves ensuring that the lifting machine is assembled and installed in a safe way in accordance with the manufacturer's instruction manual,
- The general periodic visits which involve an inspection of the state of preservation and the operating tests.
- The set-up or renewed set-up inspections in the event of a change in the place of use, the configuration or the conditions of use on the same site; following the disassembly and subsequent reassembly of the lifting machine; after any major replacement, repair or transformation concerning the essential components of the lifting machine; following any accident caused by the failure of an essential component of the lifting machine.
- The maintenance booklet (order of 2nd March 2004 applicable from 1st April 2005) which must be used to record the maintenance operations carried out in accordance with the recommendations of the manufacturer of the machine as well as any other inspection, maintenance operation, repair, replacement or modification carried out on the machine. For each operation, it is essential to record the date of the work, the names of the people and, where appropriate, the companies which carried out the work, the nature of the operation and, if it is a periodic operation, the periodicity. The English version of the maintenance booklet for our lifting winches can be downloaded from our website www.huchez.fr/ uk under the heading "After sales services". A copy is however proposed in the annexes of this manual.

The inspections must be carried out in accordance with a protocol and are intended to ensure preventive maintenance aimed at detecting any damage or defectiveness liable to result in a danger.

6 – Presentation of the machines

6.1 –General information

These winches are intended for pulling loads of between 1300 and 15,000 kg.
They use as three-phase 230/400 V 50 Hz power supply.

Depending on models:

- Different drum lengths are possible:

Models	Drum length mm				
	300	**600**	**800**	**900**	**1200**
TRAKZIO 1300 and 2100	X	X			
TRAKZIO 2400/4200/6500	X	X		X	X
TRAKZIO 10000			X		
TRAKZIO 15000			X		

- motor (IP 54 protection):
  - 1 speed, 3-phase power supply 230/400 V or 400/690 V - 50 Hz.
  - variable speed drive, single phase 230/400 V - 50 Hz or 3-phase 230/400 V or 400/690 V - 50 Hz.

Operating limit of -10° C to +50° C (without derating).

The load limiter is optional (see paragraph 6.6 below).
The three dead turns detector limit switch is included.
Worm drive primary reduction on the fully sealed TRAKZIO 1300 to 2100 range and bevel gearboxes on the TRAKZIO 2400 to 15000 range.
Secondary gearbox with greased wheel/pinion under housing.

Low voltage 24 V electrical equipment in an electrical box mounted on the winch including, as standard:
- Connector socket.
- Contactors.
- 24 V transformer.
- Thermal circuit breaker.
- Removable control box with emergency stop.

Electrical equipment Variable speed drive in an electrical box mounted on the winch (except for the 11 kW model for which the box is remote) comprising:
- SEW variator
- Connector socket.
- Braking resistance
- Not disconnectable pendant control (2 buttons + potentiometer + emergency stop), 3 m of cable.
- In option : THE DYNAMIC POWER OPTIMISATION (D.P.O.). This option allows a variable speed drive to adjust the speed of the winch (or the capstan) to the effort required, constantly and automatically. A patent has been filed with regard to this innovation.

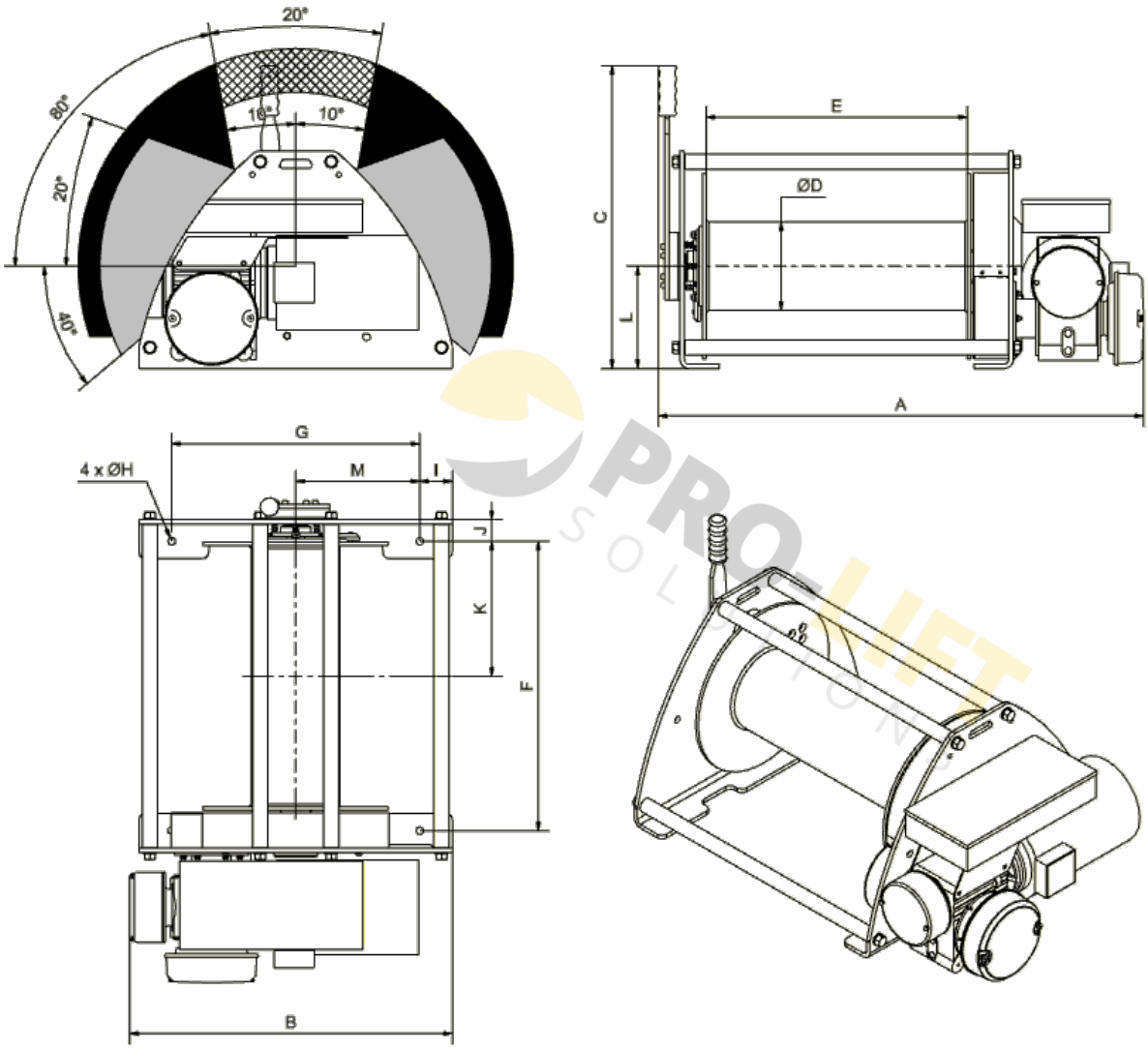
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6.2 - Dimensions

TRAKZIO 1300 and 2100 kg

Models	A mm	B mm	C mm	ØD mm	E mm	F mm	G mm	H mm	I mm
TRAKZIO 1300	1116	740	696	203	600	665	570	4 x Ø18	75
TRAKZIO 2100	1116	740	696	203	600	665	570	4 x Ø18	75



Max. amplitude of the rope – Bottom outlet

Max. amplitude of the rope – Top outlet

Rope outlet **impossible** (except on request)

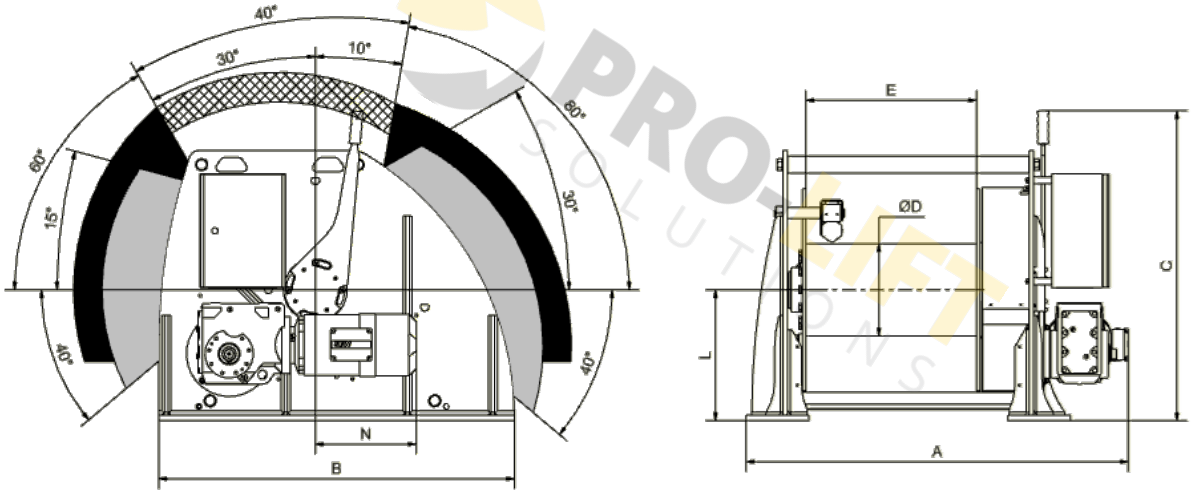
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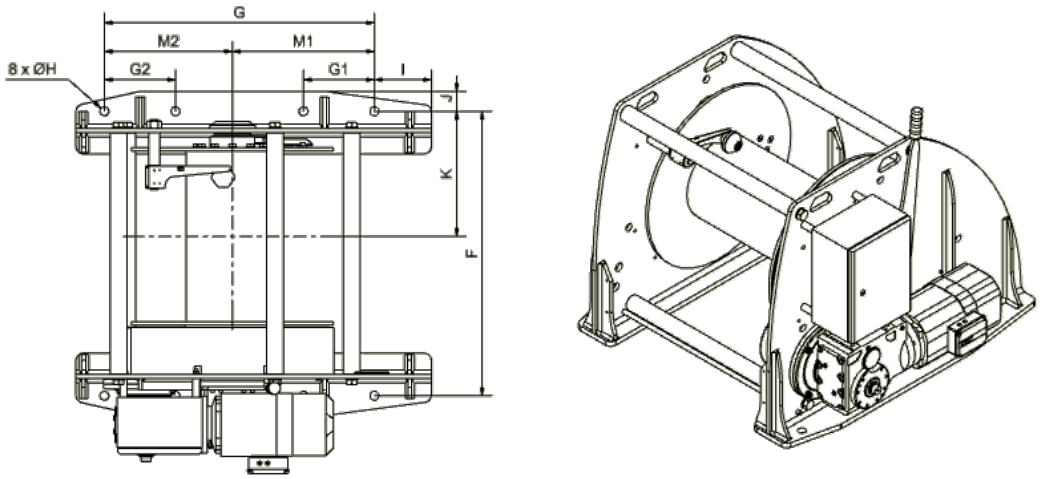
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TRAKZIO 2400 and 6500 kg

	B mm	C mm	**ØD** mm	G mm	G1 = G2 mm	ØH mm	I mm	J mm	L mm	M1/M2 mm	N mm	E=600 mm (std length)		
												A	F	K
TRAKZIO 2400S06	1250	1090	324	950	250	33	200	70	460	500/ 450	274	1291	1000	440
TRAKZIO 2400S12											304	1335		
TRAKZIO 4200S04											280	1291		
TRAKZIO 4200S07											310	1335		
TRAKZIO 6500S02											295	1344		
TRAKZIO 6500S04											325	1344		
TRAKZIO 6500S10											767	1424		

	E=300 mm			E=900 mm			E=1200 mm		
	A mm	F mm	K mm	A mm	F mm	K mm	A mm	F mm	K mm
TRAKZIO 2400S06	991	700	290	1591	1300	590	1891	1600	740
TRAKZIO 2400S12	1035			1635			1935		
TRAKZIO 4200S04	991			1591			1891		
TRAKZIO 4200S07	1035			1635			1935		
TRAKZIO 6500S02	1044			1644			1944		
TRAKZIO 6500S04	1044			1644			1944		
TRAKZIO 6500S10	1124			1724			2024		





Max. amplitude of the rope – Bottom outlet

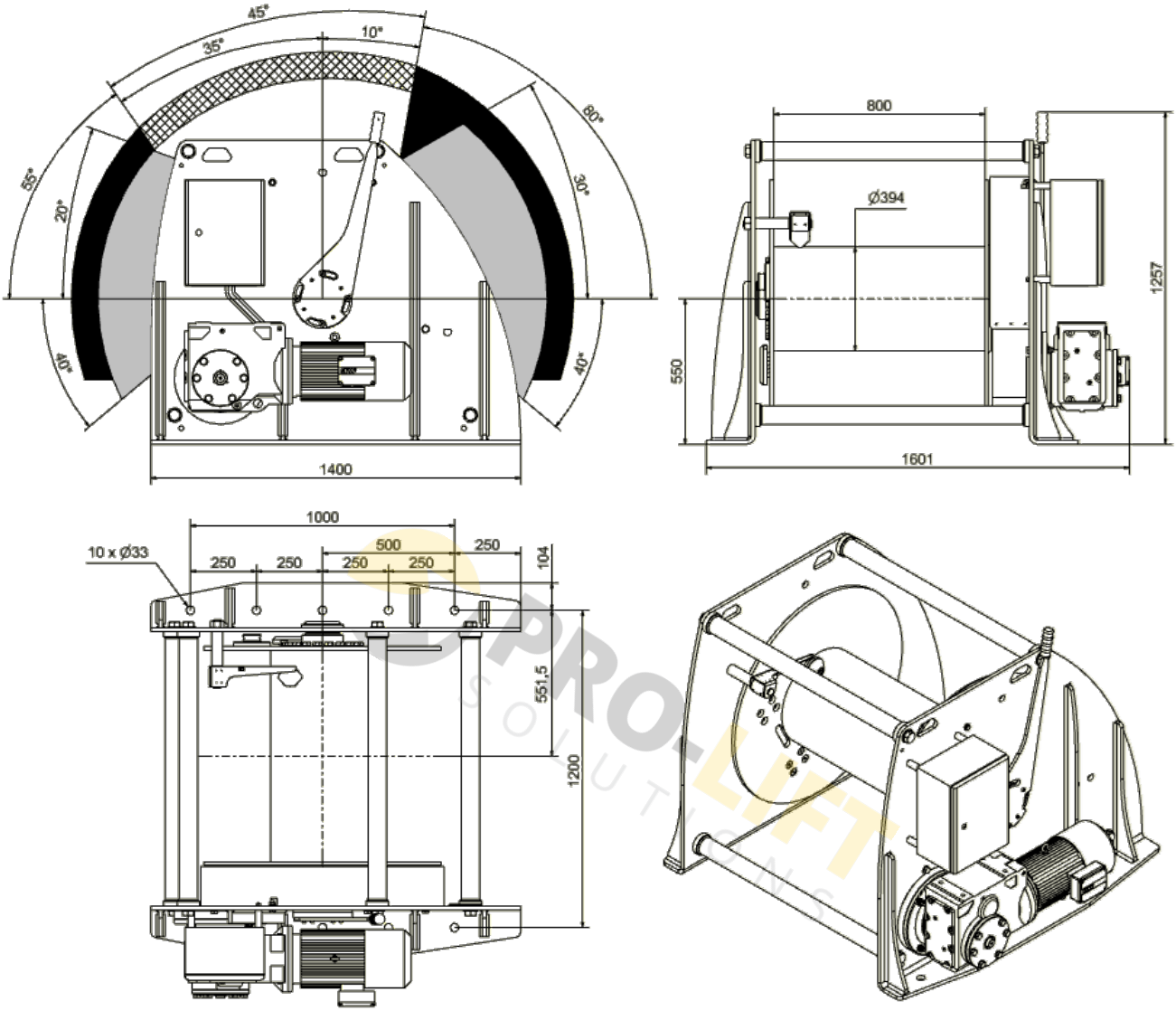
Max. amplitude of the rope – Top outlet

Rope outlet **impossible** (except on request)

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TRAKZIO 10000 kg



Max. amplitude of the rope – Bottom outlet

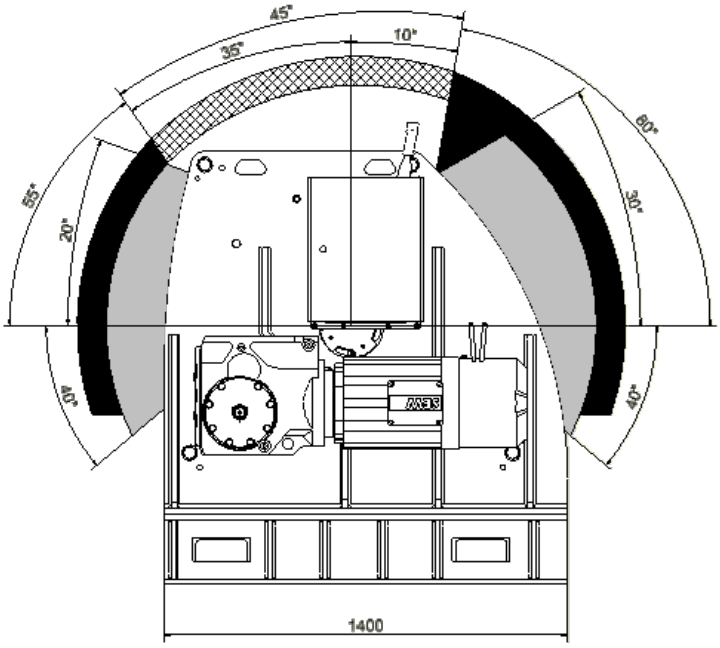
Max. amplitude of the rope – Top outlet

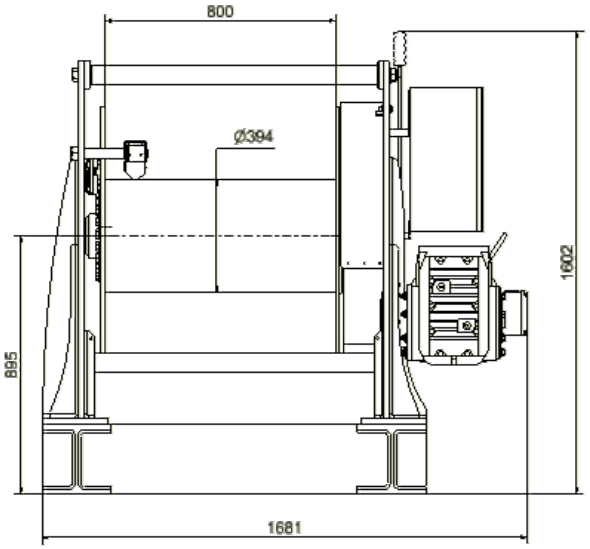
Rope outlet **impossible** (except on request)

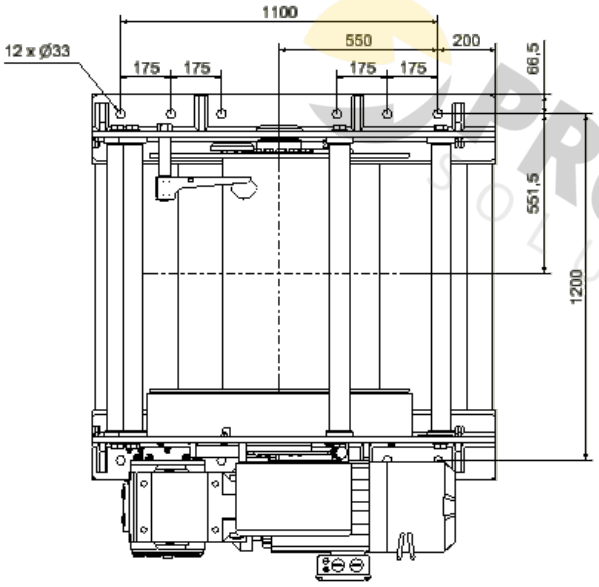
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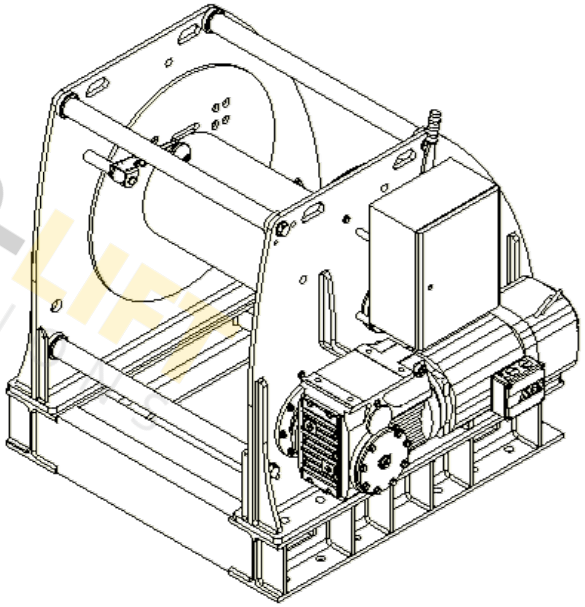
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TRAKZIO 15000 kg









Max. amplitude of the rope – Bottom outlet

Max. amplitude of the rope – Top outlet

Rope outlet **impossible** (except on request)

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6.3 – Models available

Characteristics and rope capacities 1 speed models

References	TRAKZIO 1300 S		TRAKZIO 2100 S		TRAKZIO 2400 S	
	06BT	13BT	05BT	12BT	06BT	12BT
Capacity 1st layer kg	**1300**	**1300**	**2100**	**2100**	**2400**	**2400**
Capacity 2nd layer kg	1200	1200	1900	1900	2225	2225
Capacity 3rd layer kg	1125	1125	1750	1750	2100	2100
Capacity 4th layer kg	1050	1050	1625	1625	1975	1975
Capacity top layer kg	1000	1000	1500	1500	1900	1900
Wire rope cap. top layer m*	275	275	230	230	290	290
Wire rope cap. 1st layer m*	45	45	35	35	48	48
Wire rope Ø mm	8	8	10	10	12	12
Speed top layer m/mm	6	13	5	12	6	12
Speed 1st layer m/mm	5	10	3,5	8,5	5	9
Motor Kw	2,2	4	2,2	5,5	2,2	4
Power	3 Ph - 230/400 V		3 Ph - 230/400 V		3 Ph - 230/400 V	
Weight (without wire rope) kg	235	240	235	240	915	945

References	TRAKZIO 4200 S		TRAKZIO 6500 S			TRAKZIO 10000 S	TRAKZIO 15000 S
	04BT	07BT	02BT	04BT	10BT	04BT	06BT
Capacity 1st layer kg	**4200**	**4200**	**6500**	**6500**	**6500**	**10000**	**15000**
Capacity 2nd layer kg	3900	3900	5875	5875	5875	9025	13450
Capacity 3rd layer kg	3625	3625	5350	5350	5350	8250	12200
Capacity 4th layer kg	3400	3400	4925	4925	4925	7575	11150
Capacity top layer kg	3200	3200	4600	4600	4600	7000	10000
Wire rope cap. top layer m*	270	270	210	210	210	280	260
Wire rope cap. 1st layer m*	44	44	32	32	32	43	39
Wire rope Ø mm	13	13	18	18	18	22	24
Speed top layer m/mm	4	7	2,5	4	10	4	6
Speed 1st layer m/mm	3	5,5	2	3	7,5	3	4
Motor Kw	2,2	4	2,2	4	11	5,5	11
Power	3 Ph - 230/400 V		3 Ph - 230/400 V		3 Ph - 400/690 V	3 Ph - 230/400 V	3 Ph - 400/690 V
Weight (without wire rope) kg	925	945	955	975	1060	Consult us	

Characteristics and rope capacities – models with frequency variator

References	TRAKZIO 1300 S			TRAKZIO 2100 S			TRAKZIO 2400 S		
	6VV1	6VV	13VV	05VV1	05VV	12VV	06VV1	06VV	12VV
Capacity 1st layer kg	**1300**	**1300**	**1300**	**2100**	**2100**	**2100**	**2400**	**2400**	**2400**
Capacity 2nd layer kg	1200	1200	1200	1900	1900	1900	2225	2225	2225
Capacity 3rd layer kg	1125	1125	1125	1750	1750	1750	2100	2100	2100
Capacity 4th layer kg	1050	1050	1050	1625	1625	1625	1975	1975	1975
Capacity top layer kg	1000	1000	1000	1500	1500	1500	1900	1900	1900
Wire rope cap. top layer m*	275	275	275	230	230	230	290	290	290
Wire rope cap. 1st layer m*	45	45	45	35	35	35	48	48	48
Wire rope Ø mm	8	8	8	10	10	10	12	12	12
Speed top layer m/mm	0,6-6	0,6-6	1,3-13	0,5-5	0,5-5	1,2-12	0,5-5	0,5-5	1,2-12
Speed 1st layer m/mm	0,5-5	0,5-5	1-10	0,3-3,5	0,3-3,5	0,8-8,5	0,5-5	0,5-5	0,9-9
Motor Kw	2,2	2,2	3	2,2	2,2	5,5	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	
Weight (without wire rope) kg	235	235	240	235	235	240	915	915	945

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References	TRAKZIO 4200 S			TRAKZIO 6500 S				TRAKZIO 10000 S	TRAKZIO 15000 S
	04VV1	04VV	07VV	02VV1	02VV	04VV	09VV	04VV	06VV
Capacity 1st layer kg	**4200**	**4200**	**4200**	**6500**	**6500**	**6500**	**6500**	**10000**	**15000**
Capacity 2nd layer kg	3900	3900	3900	5875	5875	5875	5875	9025	13450
Capacity 3rd layer kg	3625	3625	3625	5350	5350	5350	5350	8250	12200
Capacity 4th layer kg	3400	3400	3400	4925	4925	4925	4925	7575	11150
Capacity top layer kg	3200	3200	3200	4600	4600	4600	4600	7000	10000
Wire rope cap. top layer m*	270	270	270	210	210	210	210	280	260
Wire rope cap. 1st layer m*	44	44	44	32	32	32	32	43	39
Wire rope Ø mm	13	13	13	18	18	18	18	22	24
Speed top layer m/mm	0,4-4	0,4-4	0,7-7	0,2-2,5	0,2-2,5	0,4-4	1-10	0,4-4	0,6-6
Speed 1st layer m/mm	0,3-3	0,3-3	0,5-5,5	0,2-2	0,2-2	0,3-3	0,7-7,5	0,3-3	0,4-4
Motor Kw	2,2	2,2	4	2,2	2,2	4	11	5,5	11
Power	1 Ph - 230 V	3 Ph - 230/400 V		1 Ph - 230 V	3 Ph - 230/400 V		3 Ph - 400/690 V	3 Ph - 230/400 V	3 Ph - 400 V
Weight (without wire rope) kg	925	925	945	955	955	975	1060	Consult us	Consult us

Characteristics and rope capacities – models with D.P.O. (optional)

References	TRAKZIO 1300 S			TRAKZIO 2100 S			TRAKZIO 2400 S		
	6VV1	6VV	13VV	05VV1	05VV	12VV	06VV1	06VV	12VV
Capacity 1st layer kg	**1300**	**1300**	**1300**	**2100**	**2100**	**2100**	**2400**	**2400**	**2400**
Capacity 2nd layer kg	1200	1200	1200	1900	1900	1900	2225	2225	2225
Capacity 3rd layer kg	1125	1125	1125	1750	1750	1750	2100	2100	2100
Capacity 4th layer kg	1050	1050	1050	1625	1625	1625	1975	1975	1975
Capacity top layer kg	1000	1000	1000	1500	1500	1500	1900	1900	1900
Speed top layer m/mm	1,2-12	1,2-12	2,6-26	1-10	1-10	2,4-24	1-10	1-10	2,4-24
Speed 1st layer m/mm	1-10	1-10	2-20	0,6-7	0,6-7	1,6-17	1-10	1-10	1,8-18

References	TRAKZIO 4200 S			TRAKZIO 6500 S				TRAKZIO 10000 S	TRAKZIO 15000 S
	04VV1	04VV	07VV	02VV1	02VV	04VV	09VV	04VV	06VV
Capacity 1st layer kg	**4200**	**4200**	**4200**	**6500**	**6500**	**6500**	**6500**	**10000**	**15000**
Capacity 2nd layer kg	3900	3900	3900	5875	5875	5875	5875	9025	13450
Capacity 3rd layer kg	3625	3625	3625	5350	5350	5350	5350	8250	12200
Capacity 4th layer kg	3400	3400	3400	4925	4925	4925	4925	7575	11150
Capacity top layer kg	3200	3200	3200	4600	4600	4600	4600	7000	10000
Speed top layer m/mm	0,8-8	0,8-8	1,4-14	0,4-5	0,4-5	0,8-8	2-20	0,8-8	1,2-12
Speed 1st layer m/mm	0,6-6	0,6-6	1-11	0,4-4	0,4-4	0,6-6	1,4-15	0,6-6	0,8-8

Rope capacities with a drum of a different length.

Models	Trakzio 1300		Trakzio 2100		Trakzio 2400		Trakzio 4200		Trakzio 6500		Trakzio 10000		Trakzio 15000	
Ø wire rope mm	8		10		12		13		18		22		24	
Ø drum mm	203		203		324		324		324		394		394	
Layers	1	5	1	5	1	5	1	5	1	5	1	5	1	5
Wire rope cap. m, drum 300mm	21	136	17	114	22	144	20	133	14	103	-	-	-	-
Wire rope cap. m, drum 600mm std	45	275	35	230	48	290	44	270	32	210	-	-	-	-
Wire rope cap. m, drum 800mm*	-	-	-	-	-	-	-	-	-	-	43	280	39	260
Wire rope cap. m, drum 900mm	-	-	-	-	74	440	68	410	49	317	-	-	-	-
Wire rope cap. m, drum 1200mm	-	-	-	-	100	588	92	550	67	424	-	-	-	-

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6.4. Variable speed drive

6.4.1. General

WARNING

- The electronic speed control equipement of the electric motors are connected to potentially dangerous voltages. When connecting, performing servicing or dismantling these appliances, the greatest of precautions must be taken to prevent electric discharges.
- This appliance contains capacitors which accumulate energy. When the appliance is switched off, these capacitors retain a dangerous voltage for a few minutes subsequent to switching off. Wait at least 5 minutes before opening or touching live parts of the appliance.
- The earth connection of the appliance must be connected to a suitable earth connector of the electrical installation.
- This appliance must be installed, adjusted and serviced by a qualified electrician. This person must be familiar with the construction and commissioning of this appliance.
- The variable speed controls fitted with a CEM filter and faradised motor rope may have significant leakage currents to the earth, especially when the appliance is switched on. Differential switches could therefore be tripped accidentally. Furthermore, the diode rectifying bridge in the input circuit could generate a direct current in the phases of the network. You are advised to use differential switches which are not sensitive to these transient currents and of a high tripping level. The other equipment must be protected by one or more separate differential switches.
- A differential switch upstream to a variable speed control is not adequate protection.

6.4.2. Wiring

DANGER

- Make sure that the appliance is connected to a sound earth.
- The wiring must be performed by a qualified electrician adhering to the safety standards of the country of installation.
- Do not perform or modify the wiring before you are personally sure that the voltage of the network is no longer present on the appliance and that any residual voltage of the appliance has disappeared.
- Check that the voltage of the network corresponds to the voltage of the variable speed.
- Do not connect the phases of the network to the output terminals for the connection of the motor (U, V, W).
- Tighten the screws to the suitable tightening torque. Check, before switching on, that all the connections are securely tightened.

6.5 - Options

The TRAKZIO winches can be supplied with the following options:

1 -Rotary limit switch □
Easy to adjust, this system guarantees safety by preventing upper and lower overruns.

2 - IP 65 limit switch □

3 - Electronic load limiter □
Display measure which stops the winch in the event of overloading without breaking the kinematic chain.

4. THE DYNAMIC POWER OPTIMISATION (D.P.O.). □
This option allows a variable speed drive to adjust the speed of the winch (or the capstan) to the effort required, constantly and automatically. A patent has been filed with regard to this innovation.

5. Grooved drum
Facilitates correct winding of the rope on the first layer.

6. Rope press roller □
Essential complement for the grooved drum if the rope is not permanently taut.

7. Manual release for automatic return brake □

8. Manual control □
Control crank or wheel linked to the brake release.

9. Rope slack switch □
Detects lack of tension in the work rope

10.2nd rope fastener □
Facilitates a two-way system or 2-point load lifting.

11 . Timer □
Calculates total time of use for the winch and facilitates use of the maintenance booklet.

12. Site chassis □
Protects the winch against impacts.

13. Central flange drum □
Allows several layers to be wound with 2 ropes.

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14.Class-3 radio control □
Long-range pulling: 230 m. Active emergency stop in a separate circuit.

15.Class-B radio control for pulling only □
Range of 50 m. Active emergency stop.

16. Phase detector □

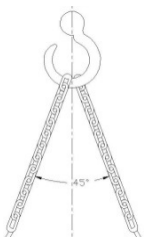
17.Additional rope length for the control box (per metre) □

18. Additional electrical cable length (per metre) □

19. Other control power voltages and frequencies on request □

7 – Handling - Storage

When handling the winch, use suitable slings to be placed in the sling points provided on the winch.



Important: the angle formed between the hook and the two sling points must not exceed 45°.
Lift and place the winch carefully without dropping it.

Do not forget that the centre of gravity of the winch is off-centre.

For more information concerning the weight of the winch, please consult the Technical specifications chapter.

When stored, these winches must be protected from bad weather in a clean and dry place at a temperature between -10°C and +50°C.

8 - Installation and set-up

8.1- Installation

The service life of a winch depends on its installation and set-up.
It is essential that you read this manual carefully before installing, using and servicing your machine.
Any use which contravenes our instructions may create risks. In this case, the manufacturer cannot accept any liability.

- Do not use this machine before having read and understood the instruction manual in its entirety
- Always keep the manual close to the machine, available to the operator and the maintenance officer
- Comply and ensure compliance with the safety rules

Connect to the power supply (see 8.3 Power supply)
Check the rope and hook
While ready to press the emergency stop button at all times and with no load attached, check that the movement of the hook corresponds to the direction of the arrows indicated on the control unit.
Check that the brake works: with a nominal load attached, lift the load and lower it again or, in the case of pulling, pull this load.
Check that the limit switch works.
The winch has been subjected to the dynamic and static tests in the factory (cf. Test record).

8.2-Place of installation

TRAKZIO series winches must be installed and bolted to a flat, solid and secure surface capable of bearing the loads to which it will be subjected. An unsuitable installation site may lead to serious accidents.
To assess the suitability of the place of installation and its resistance to loads, you must take into account any possible overloading, the weight of the winch itself and the weight of the options and/or accessories fitted to it, including all dynamic forces. The winch user is responsible for determining the place of installation. If in doubt with regard to the suitability of a place of installation, contact a civil engineer or a statics specialist.

Tighten the fastening bolts correctly (cf. tables 6.2, 6.3 and 6.4)

Bolt / nut	Grade 8.8 bolt / nut tightening torque Nm
M16	210
M30	1400

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8.3 – Power supply

Before undertaking any operation on the electrical unit, check that the power supply to the machine is off.
A disconnecting switch must be placed no more than 10 meters from the place of use.

Very important: the winch will only provide full power if the motor is supplied by means of a perfectly adapted cable section.
Provide protection for individuals in front of the electrical unit.

8.3.1 – Electrical connections

The power supply cable, the protective fuses and the main disconnecting switch (see wiring diagram) must be provided by the customer.
Check that the supply network complies with the machine.
Check the type of current; there must not be more than about 5% deviation from the rated voltage
Neutralize electrical sources
Check that the main power supply switch on the winch is in the off position.
Do not connect the power supply cable to the machine using connection terminals (split fittings etc.)
Do not use a cable with a smaller section to supply power to the machine.
Never "shunt" the disconnecting switches, electrical switches, prevention or limitation equipment.
Never block, adjust or remove switches or end stops in order to go beyond the levels that they allow.

8.3.2 – Connection

Connect the power supply using the female three-phase European socket provided
Check that the socket connector is correctly tightened
Match phases L1 – L2 – L3 and the PE earth wire
Check that the winch works (direction of rotation)

- Do not change the direction labels in the control unit or in the winch's internal wiring.

8.4 – Work rope

Important: the direction of rotation of the drum depends on the way in which the machine is connected (order of the three-phase current phases)
Reminder: check the maximum capacity of the winch (see the models available § 6.5).

Very important :

The safety regulations require that 2 to 3 loops of rope always be left on the drum.
To comply with the legislation, the rope diameter must not exceed the recommended diameter.
If the rope and the hook used were not supplied by the manufacturer with the machine, check that they guarantee a level of safety corresponding to table § 6.5.

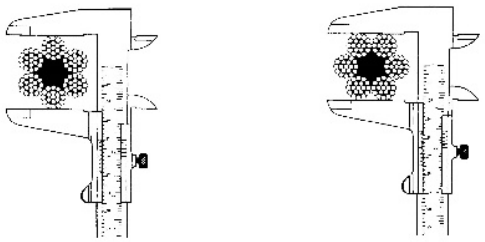
When the winch is supplied with the rope wound on, it has not been tautened during assembly.
The user must tauten the rope using a minimum force of 1% of the operating load of the winch.

The service life of the steel ropes used on the winch depends on a number of factors, including the form of the work cycles (pulling height, pulling speed, number and type of deviations, etc.) and the operating mode (number of coil layers, distribution of the work cycles over the length of the steel rope, etc.).
The service life of steel ropes is therefore subject to considerable variation depending on these factors.

Please remember that rope replacement must be done using equipment with the same specifications as the original rope.
This replacement must be recorded in the maintenance booklet.

IMPORTANT: even if the rope was supplied with the winch, it was not tautened during assembly. The user must tauten it using a minimum force of 1% of its breaking load.

Measuring the rope diameter using sleeve callipers:



Correct measurement **Incorrect measurement**

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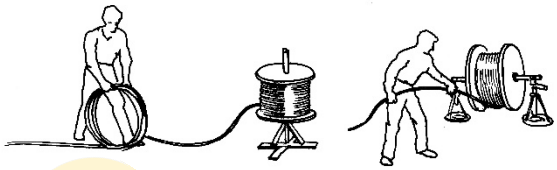
Handling steel ropes

- Always use suitable protective gloves when handling steel ropes
- Never use a rope with faults such as:
  - ✓ An unacceptable number of broken strands
  - ✓ Basket distortions
  - ✓ Broken bird-caging
  - ✓ Flattening
  - ✓ Constrictions
  - ✓ Strand extrusions
  - ✓ Broken rope cores
  - ✓ Slack strands
  - ✓ Bends or loops
- Always check the level of wear of the rope before use
- Never use steel ropes as loops
- Never expose steel ropes to angular or sharp edges



Unwinding the rope from its reel:

CORRECT:





INCORRECT

Fastening the rope

The winches are supplied, as standard, with a rope clamp adapted to the recommended rope and installed in accordance with a standard rope outlet.

Align the rope clamp with the hole drilled in the winch for this purpose.

Fit the rope into the groove of the flange and place it between the flange and the rope clamp, taking care to position it in the groove of the rope clamp.
Position the rope slightly proud of the external diameter of the flange.
Once the 4 screws have been tightened, the rope is installed correctly.

The cable should not make a loop in any circumstance.

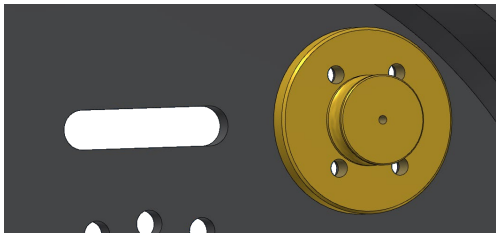


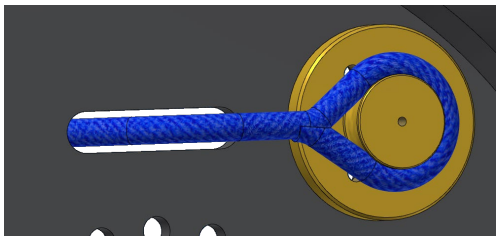


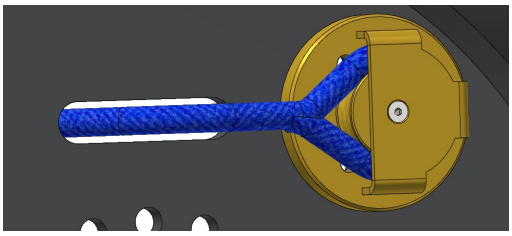
The Trakzio can be fitted with a textile rope instead of a steel cable. This requires a special device (optional) to attach the cable to the drum safely and effectively. The textile rope should end in a loop without a core lug:

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Winding the rope on the drum

To do this, tauten the rope and wind it with joined strands onto the drum.

Start to wind the rope forming a spiral to the right. In order to facilitate this operation, some drums are provided with a heel attached to one of the flanges, which "fills" the space between the first turn and the flange.

The first layer must be wound in a compact manner and under tension. Take a mallet or a block of wood and knock the turns against one another; not too hard to prevent the strands from overlapping one another, but tightly enough to prevent the rope from moving on the drum. If the first layer is wound too loose, the next layer will form a space in the first layer that will result in an open area. If the first layer is too tight, the subsequent layers will not have enough space between turns.

In any case, the first layer and all the other layers must be wound onto the drum with enough pre-tension (5-10 % of the MWL of the rope). If the rope is wound without any tension, it will suffer from crushing and premature flattening caused by the loaded upper layers.

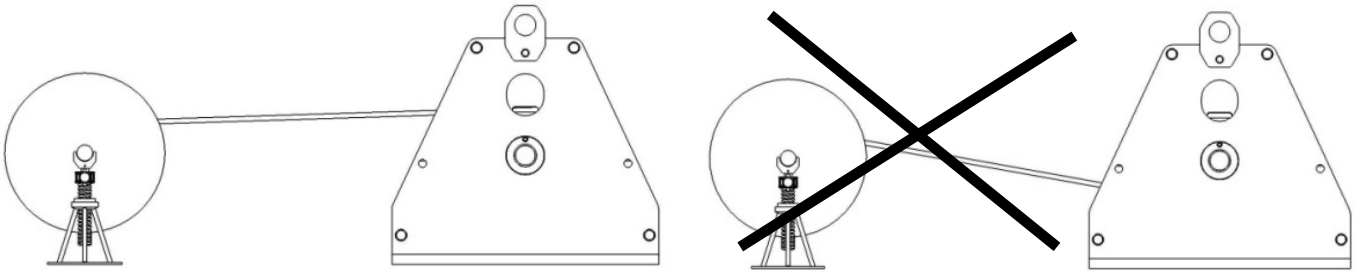
Even if the first layer is wound correctly during installation, it will expand a little while in service. When the first layer expands (loss of pre-tension) the initial procedure MUST be performed at regular intervals.

Otherwise, the "hard" turns will severely crush the base layers.

Whatever you do, DO NOT pass the rope through a clamping mechanism. For example, two blocks of wood screwed together. **THIS WILL CAUSE IRREPARABLE DAMAGE TO THE ROPE!**

It is important to respect the indication below; if the rope start on the winch is at the bottom, respect the same principle. Not respecting this precaution will damage your rope irretrievably and it will become extremely dangerous.

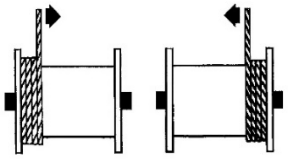
Check the direction of cable winding according to the motor connection.



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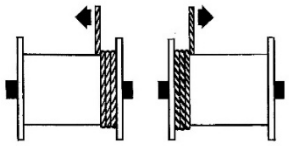
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Right-hand rope
Wind from the left
towards the right



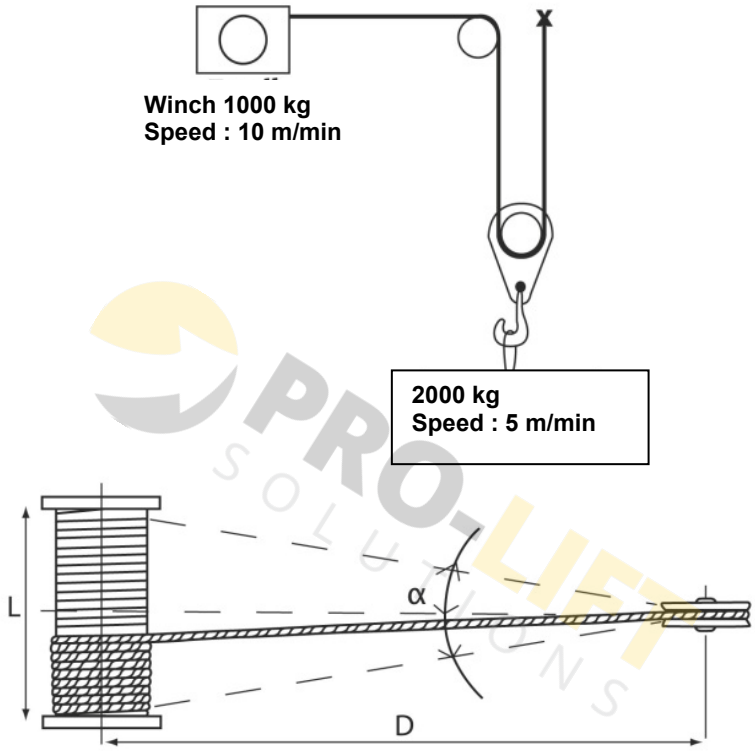
Left-hand rope
Wind from the right
towards the left

Right-hand rope
Wind from the right
towards the left



Left-hand rope
Wind from the left
towards the right

Principle of reeving:



Smooth drum: **α** = max. 1.5°
Grooved drum: **α** = max. 2°
D = 20 times L

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9 – Servicing and maintenance

Winches
Respect the following instructions, in particular if your winch is used in a large number of different locations or in a particularly dirty and damp environment:

- Remove most of the dirt from the winch.
- Always store the winch in a dry, clean place.

9.1 –Before switch on

Check :

- The level of oil in the reduction gear.
- The rope is correctly fastened to the drum.
- The exterior appearance of the winch.

9.2 – First set up

At the start of the installation process, it is recommended that you respect a running-in period of thirty hours at ¾ of the load. The nominal capacity will be obtained after this running-in period.

9.3 – Periodic servicing

See also chapter 5: Obligatory regulatory checks by the user

Every 100 hours, check the level of oil in the reducer. Check that the pinion and ring gears are correctly lubricated.
Every 500 hours, change the oil in the reducer. Cleaning and changing the pinion/crown grease.

Pinion/crown grease : MOBILUX EP2.

The reducer is lubricated using Esso Glycolub Range 220 mineral oil (or equivalent):

Model	Quantity (litres)	Type of oil or equivalent
TRAKZIO 1300 à 2 100 kg	1	GLYGOYLE 30
TRAKZIO 2 400 et 4 200 kg	2,7	GLYCOLUB RANGE 220
TRAKZIO 6 500 kg	4,6	
TRAKZIO 10 000 kg	8,8	
TRAKZIO 15 000 kg	7	GLYCOLUB RANGE 220

Very important:
In the event of a change in the type of oil, please contact our after-sales service.

Ropes
The ropes must be cleaned and greased regularly using a special grease which penetrates to the rope core.
Only use appropriate and harmless cleaning products for all the components of the rope, including the core.
If lubrication is impossible for reasons linked to use, the service life of the rope will be reduced considerably and increased monitoring of the rope will therefore be necessary.
The ropes must be checked visually every day.

Hooks
Check the hook and its safety latch
If the rope and hook are not supplied by the manufacturer, check that the parts used guarantee a level of safety corresponding to table §6.6.
Check the fastening points of the reeving on a regular basis.

Servicing and maintenance operations on the winch and rope must be carried out without any load on the winch.

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10 – Taking out of use

If the equipment is in a state of disrepair likely to give rise to risks, the user is obliged to ensure that this equipment is eliminated, i.e.: prevented from operating and possibly disassembly.

11 – Spare parts

If, during maintenance operations, you notice that certain parts of your winch need to be replaced, use HUCHEZ original parts only.

For all spare parts orders, please indicate the following specifications on your order

- The type and capacity of the winch (indicated on the nameplate).
- The serial number and year of manufacture (indicated on the nameplate).
- The number or designation of the desired parts (exploded view).

12 – Operating faults

Fault	Possible cause	Solution
Motor does not start.	Power supply cut.	Check and correct the problem Check the emergency stop.
	Brake not released	See "brake fault"
	The contactor does not respond, Control fault.	Check the contactor control and eliminate the fault.
	Limit switch engaged.	Check the limit switch.
Motor does not start. or starts with difficulty.	The voltage or frequency varies considerably compared to the setting when starting.	Improve the mains conditions. Check the cable sections.
Motor revs and absorbs a great deal of power.	Brake not released.	See "brake fault"
	Faulty winding.	Take the motor to an approved workshop for repair.
	One supply phase missing.	Check the power supply.
Circuit breaker activated immediately.	Short circuit in the power supply cables.	Eliminate the short circuit.
	Short circuit in the motor.	Have the fault corrected in an approved workshop.
	Power supply cables incorrectly connected.	Correct the connection.
	Motor earth fault.	Have the fault corrected in an approved workshop.
Speed greatly reduced when loaded.	Voltage drop.	Increase the power supply cable section.
Motor too hot (temperature measure)	Insufficient ventilation.	Clear the ventilation lanes.
	Ambient temperature too high.	Respect the authorised temperature range.
	Bad contact in the power supply cable (operates temporarily on 2 phases)	Eliminate the bad contact.
	Circuit breaker activated.	Bad contact in the relays.
	Service factor exceeded (S1 to S10, DIN 57530), e.g. because start speed is too high.	Adapt the service factor to the prescribed conditions; if necessary, call a specialist to determine the type of motor.
Drive system too noisy	Rotating parts vibrate.	Check the balances, eliminate the cause of the vibrations.
	Foreign bodies in the ventilation lanes.	Clean the ventilation lanes.
Brake not released.	Incorrect voltage in the brake reducer.	Apply the voltage indicated on the nameplate.
	Faulty brake control.	Replace the brake control, check the brake coil (internal resistance and insulation) and the relays.
	Max. air gap exceeded due to worn lagging.	Measure and if necessary adjust the air gap.
	Voltage drop > 10% for power supply.	Check correct power supply; check the cable section.
	Short circuit for earth or between the windings.	Have the entire brake and rectifier replaced in an approved workshop; check the relays.
	Faulty rectifier.	Replace the rectifier and brake coil.
Motor does not brake.	Incorrect air gap.	Measure and if necessary adjust the air gap.
	Brake lagging totally worn.	Replace the entire lagging retainer.

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13 – Declaration of EC conformity

HUCHEZ

CE

DECLARATION OF CONFORMITY

F03.31.1 - UK Electric winch – MOTORBOX - Tirlev
PRIMO – TRBoxter - TRB - TRB VV - TRC
INDUSTRIA – TT -TE - TEL – PL - Engineering

We hereby declare that the design and manufacture of the machinery referred to below comply with the relevant requirements of Directive 2006/42/CE on Machinery.
Moreover, we hereby declare that the machinery complies with the following Directives:

- Directive CEM 2000/108/CE
- Directive BT 2006/95/CE

The machinery's technical file has been put together by the signatory of this declaration.
This declaration shall become null and void in the event it is changed or if any item is added without our prior consent.
Moreover, this declaration shall become null and void if the machinery is not used in accordance with its instructions for use and if it is not inspected regularly.

Type of device: **Electric winch**

Model:

Force:

Serial n°:

Funcion: ☐ Hoisting or hauling equipment

☐ Hauling only

Harmonised standard(s) used, notably: EN 14492-1
Quality assurance: ISO 9001 (certificate registration n°: FQA 9911492)

Equipment delivered: ☐ with cable ☐ with hook

☐ without cable ☐ without hook
important: these items must comply strictly with the specifications indicated on the manufacturer's plate affixed to the winch and the instructions for use, and they must be supplied by professionals specialized in their use.

☐ with limit switch ☐ with load-limiting device
1000+ kg

☐ without limit switch *For hauling only* ☐ without load-limiting device *For hauling only*

and with instructions for use.

Issued in Ferrières on:

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SPECIMEN PRO-LIFT SOLUTIONS

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14 – Annexes

A – Parts numbers

B – Three dead turns detector limit switch

C – Drum disengaging system

D - Options

. Clock type limit switch

. Load limiter

. Rope slack switch

. Rope press roll

E – Maintenance booklet

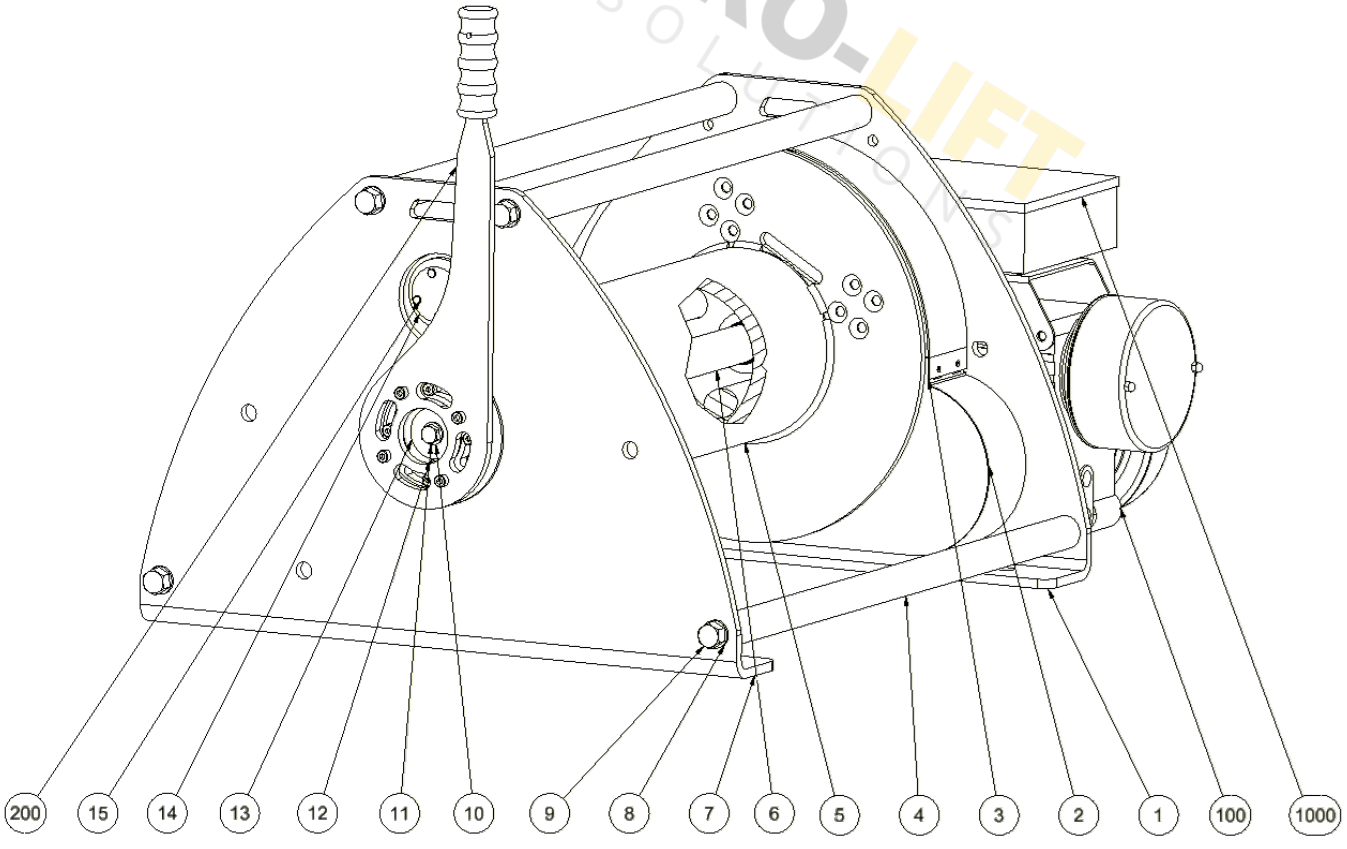
PRO-LIFT SOLUTIONS

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TRAKZIO 1300 to 2100 kg

Key	Qty	Part N°	Designation
1	1	25214	Steel reduction gearbox flank
2	1	23154	Bottom cover
3	1	22171	Top cover
4	4	23124	300 long. rod
		23050	600 long. rod
5	1	23223	300 long, SE drum
		25210	600 long, SE drum
6	1	23121	300 long drum shaft
		23062	600 long drum shaft
7	1	25205	Outer flank
8	8	13214	Washer M16
9	8	23120	Brace screw
10	1	13212	Washer M12
11	1	13084-K	TH M12x35 screw
12	1	25204	Bearing
13	1	22166	Washer
14	1	23430	Cable clamp
15	4	13580	TFHC M10x30 screw
100	1		Geared motor
200	1		SE clutch
1000	1		Electrical equipment

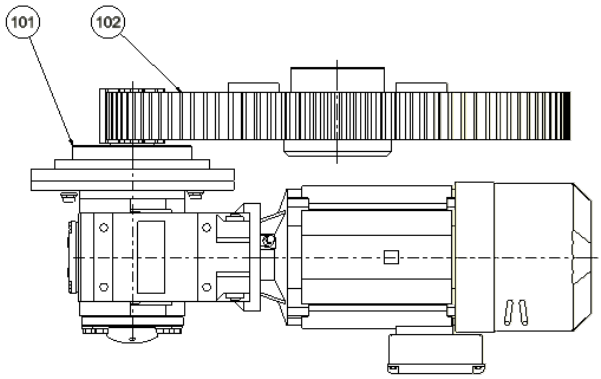


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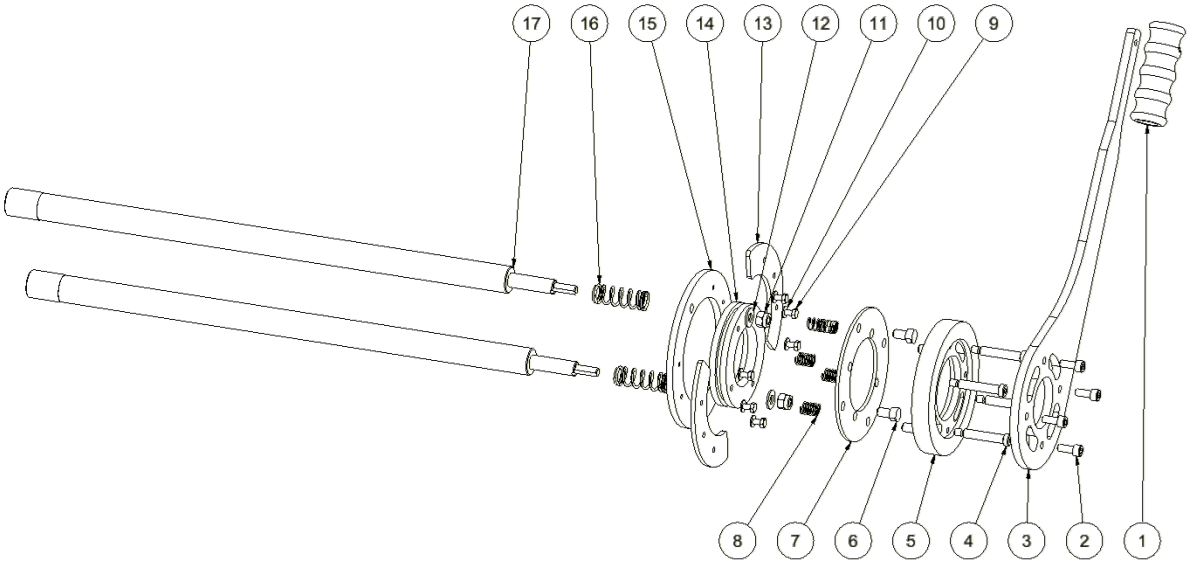
100 - Geared motor

Key	Qty	Part N°	Designation
101	1	115116	Geared motor 1300 / 2.2 kW
		115115	Geared motor 1300 / 4 kW
		115110	Geared motor 2100 / 2.2 kW
		115111	Geared motor 2100 / 5.5 kW
102	1	23129	Wheel 80 teeth M5



200 – Clutch

Key	Qty	Part N°	Designation
1	1	24919	Clutch release handle
2	4	13142	M8x20 CHC screw
3	1	25211	Metal clutch lever
4	4	V2062	M8 Lg50 shoulder screw
5	1	25212	Clutch release disc
6	4	25200	Thrust pin
7	1	25213	Thrust disc
8	4	D2032	Spring CA1375-125-0345
9	6	13057-k	Screw H M6x12
10	6	13209-k	Washer M6
11	2	13020-k	Screw H FR M10
12	2	13306	Washer M10
13	2	25203	Slide plate
14	1	25201	Slide
15	1	25202	Clutch flange
16	2	D2031	Spring CA2250-250-0620
17	2	25224	300 long clutch shaft
		25206	600 long clutch shaft

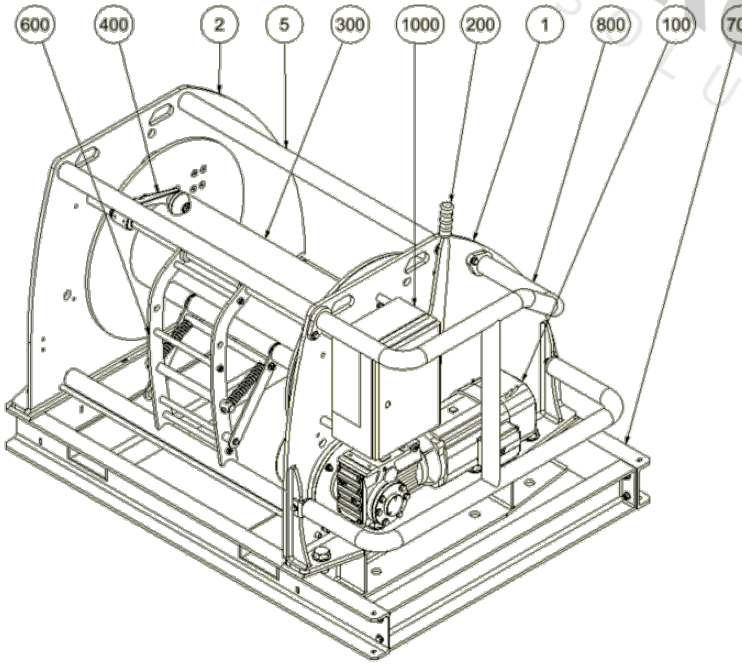


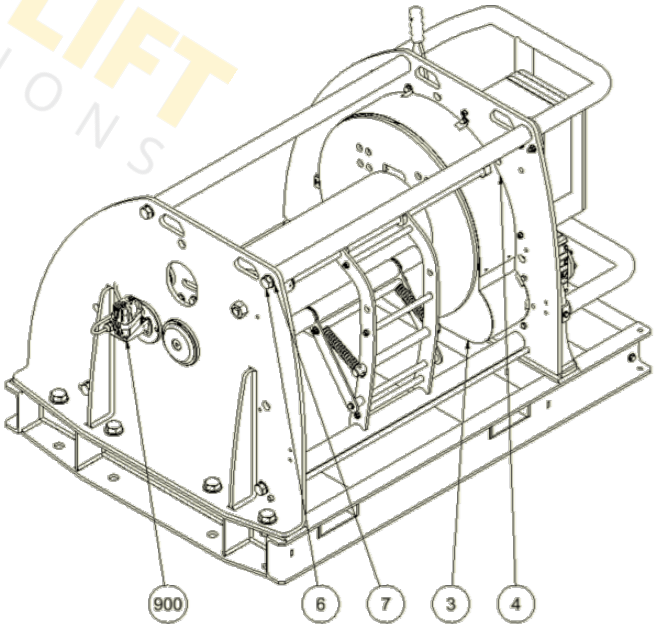
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TRAKZIO 2400 to 15000 kg

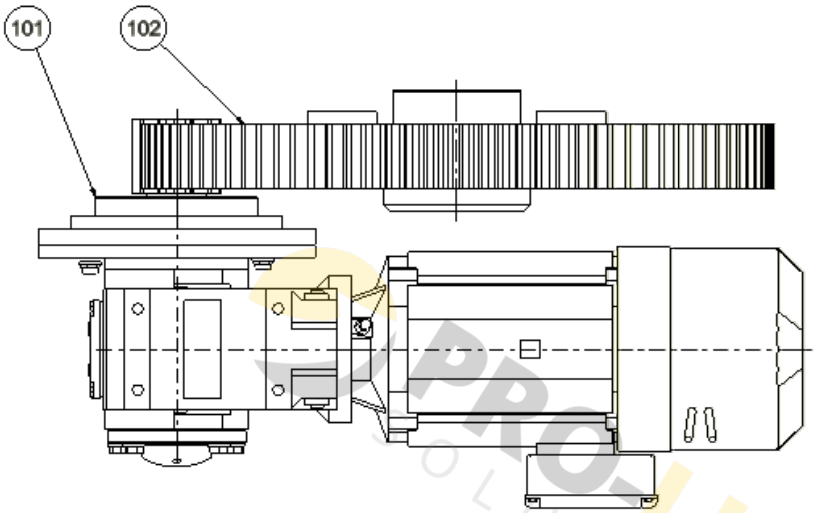
Key	Qty	Part N°			Designation
		TRAKZIO 2400-4200-6500	TRAKZIO 10000	TRAKZIO 15000	
1	1	24948	25042	25456	Simple gear flank
2	1	24949	25043	25457	Single external flank
3	1	23032	22248	22248	Bottom cover
4	1	23029	22247	22247	Top cover
5	4	23094	X	X	300 long. rod
		23016	X	X	600 long rod (std.)
		23095	X	X	900 long. rod
		23096	X	X	1200 long. rod
		X	22237	25459	Rod
6	8	22115	22117	22117	Brace screw
7	8	13217	13310	13310	Washer
100	1				SE geared motor
200	1				SE clutch
300	1				SE drum
400	1				SE roller dead turns
600	1	Option	Option	Option	SE cable press
700	1	Option	Option	Option	SE skid
		X	X	25460 (std)	Trakzio 15T SE chassis
800	1	Option	Option	Option	SE tubular protection
900	1	Option	Option	Option	SE limit switch
1000	1				SE electrical box





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Key	Qty	Part N°	Designation
101	1	115500	Geared motor 2400 / 2.2kW
		115501	Geared motor 2400 / 4kW
		115502	Geared motor 4200 / 2.2 kW
		115503	Geared motor 4200 / 4 kW
		115504	Geared motor 6500 / 2.2kW
		115505	Geared motor 6500 / 4 kW
		115506	Motor + gearbox 6500 / 11 kW
		115507	Geared motor 10000 / 5.5 kW
		115508	Geared motor 15000 / 11 kW
102	1	24872	Wheel 96 teeth M7 (2400-4200-6500)
		25002	Wheel 89 teeth M10 (10000)
		25262	Wheel 89 teeth M10 (15000)

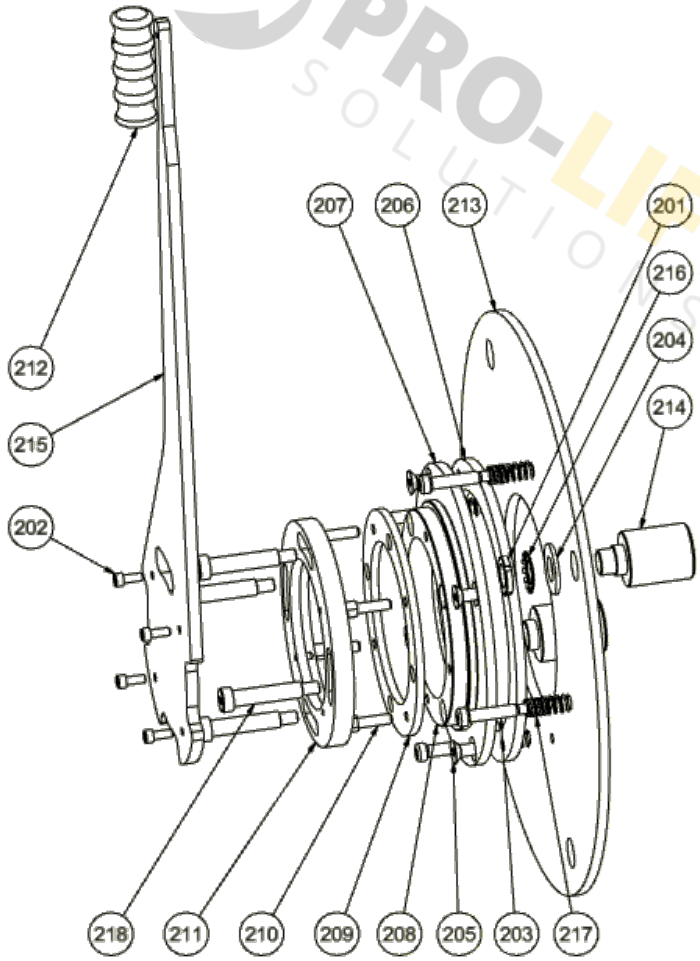


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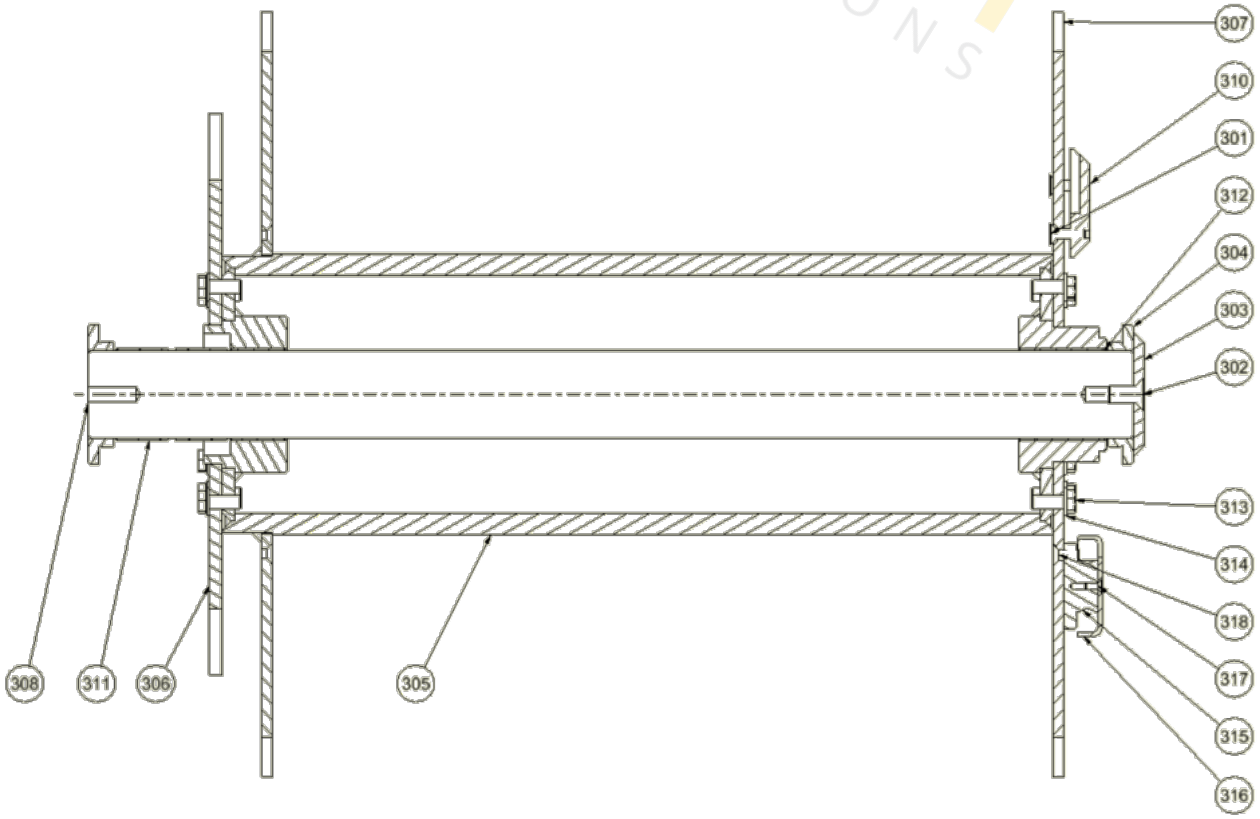
200 – Clutch

Key	Qty	Part N°	Designation
201	2	13004	Cylindrical nut with grooves
202	4	13142	CHC screw NF E 25-125 M8x20
203	4	13160	Shoulder screws HSS 12x50
204	2	13217	Washer NF E 25-514 M Ø24
205	4	13326	Screw F HC M12x30
206	1	24876	Spacer plate
207	1	24877	Clamping plate
208	1	24878	Sliding clutch 2400-4200-6500-10000
		25277	Sliding clutch 15000
209	1	24880	Thrust disc
210	4	24881	Thrust pin 2400-4200-6500-10000
		25278	Thrust pin 15000
211	1	24882	Clutch release disc
212	1	24919	Clutch release handle
213	1	24874	Metal plate 2400-4200-6500
		25017	Metal plate 10000-15000
214	2	24875	Clutch release pin 2400-4200-6500
		25018	Clutch release pin 10000-15000
215	1	24918	Clutch release lever 2400-4200-6500
		25028	Clutch release lever 10000-15000
216	2	59771-04	Washer MB5
217	4	D2001	Spring CA1800-200-0500
218	4	V2001	M12 Lg70 shoulder screw



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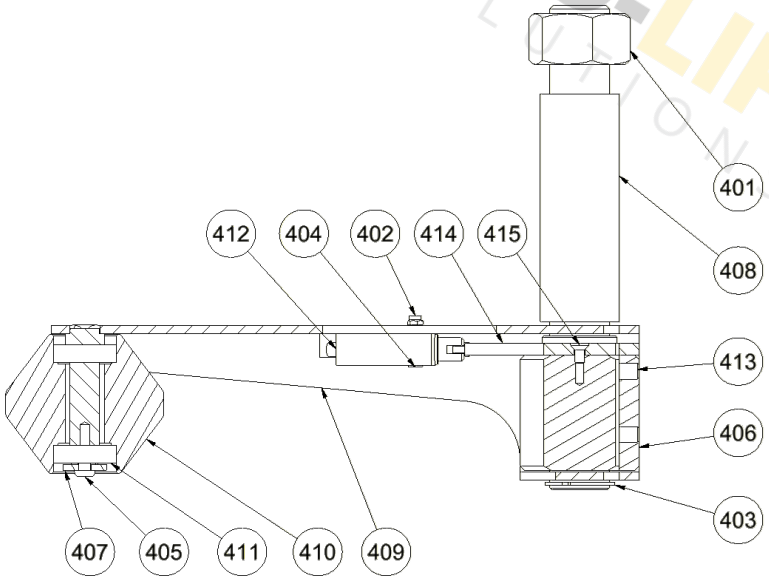
Key	Qty	Part N°			Designation
		TRAKZIO 2400-4200-6500	TRAKZIO 10000	TRAKZIO 15000	
301	4	13638			Screw F HC M12x40
			13509	13509	Screw F HC M16x50
302	1	13615	13615	13615	Screw F HC M20x40
303	1	23039	22307	22307	Clamping washer
304	1	24884	24884	25275	Welded shaft end bearing
305	1	25359			Welded drum 300
		24853			Welded drum 600 (std.)
		25360			Welded drum 900
		25361			Welded drum 1200
			25003	25003	Welded drum
306	1	24855	25010	25010	Clutch flange
307	1	24858	25013	25013	AC2 flange std.
308	1	25416			Welded drum shaft 300
		24865			Welded drum shaft 600 (std.)
		25413			Welded drum shaft 900
		25438			Welded drum shaft 1200
			25045	25458	Welded drum shaft
310	1	22676	25024	25024	Cable clamp
311	3	D2002	D2002	D2002	PAP ring 100 x 60
312	1	D2003	D2003	D2003	PAP ring 100 x 80
313	24	13096			Screw TH M16-40
	40		13550	13550	Screw TH M20x40
314	24	13214			Washer M16
	40		13216	13216	Washer M20
315	1	25246	25025	25025	Fabric wire fitting
316	1	25247	25247	25247	Textile cable fastening plate
317	1	13512	13512	13512	Screw F HC M8x20
318	4	13326			Screw F HC M12x30
			V2003	V2003	Screw F HC M16x30



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Key	Qty	Part N°	Designation
401	1	13291	Nut NF E 24032 M30
402	2	13368	Nylon ring nut DIN985 M4
403	1	13434	Ext. circlips 30x1.5
404	2	13562	CHC screw NF E 25-125 M4x20
405	1	13686	Screw_TBHC ISO 7380 M6x12
406	1	25462	Cam support
407	1	24915	Roller fixing washer
408	1	24911	Roller limit switch support (2400-4200-6500)
		25046	Roller limit switch support (10000)
		25461	Roller limit switch support (15000)
409	1	24912	Welded arm roller sensor 2400-4200-6500
		25040	Welded arm roller sensor 10000-15000
410	1	24913	Roller 2400-4200-6500
		25041	Roller 10000-15000
411	2	3311	Bearing 6002 2RS
412	1	E2110	Switch_xcmn2102L3
413	2	V2000	Screw ST HC M8x16 ISO 4027
414	1	25283	FDC roller cam
415	2	13727	Screw F HC M5x10

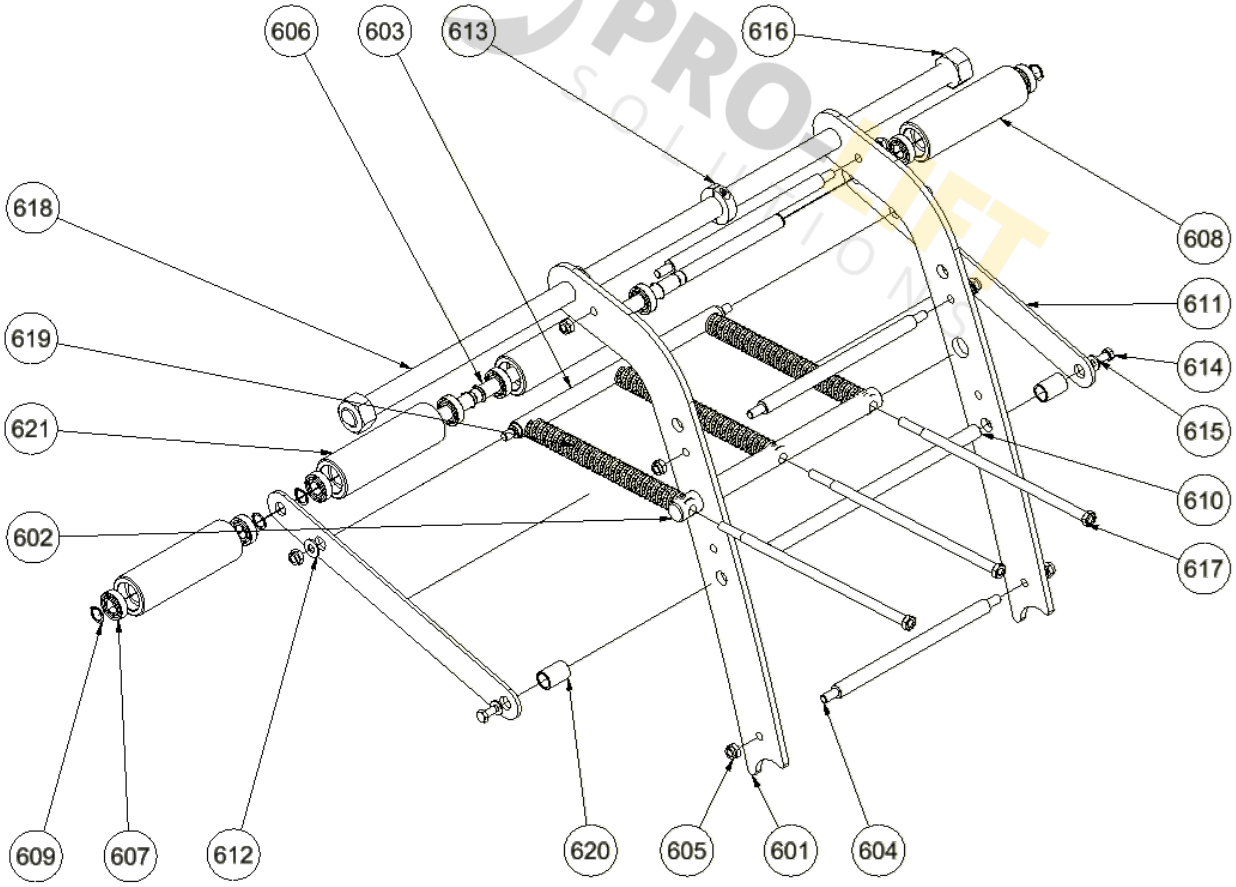


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600 Rope press (option)

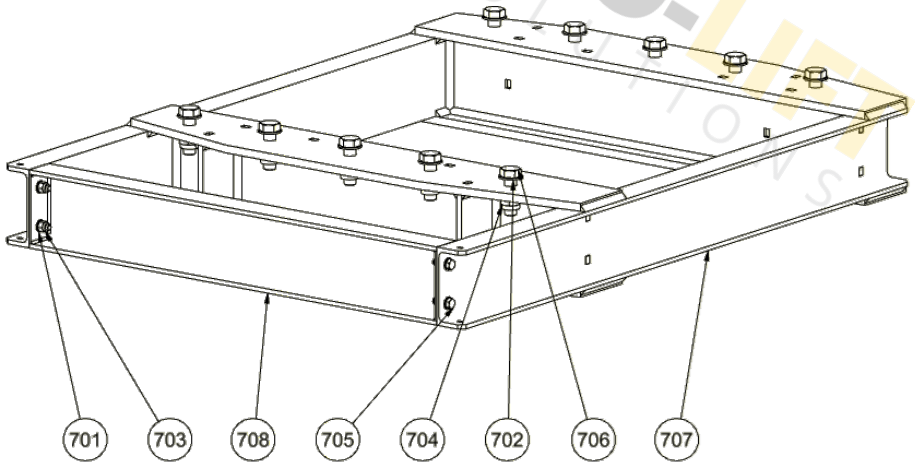
Key	Qty	Part N°	Designation
601	2		PC support arm
602	1		PC Spring stop
603	1		PC spring fastener
604	3		PC reinforcing tie-rod
605	4		Nylon ring nut M12
606	1		PC roller axle
607	8		Bearing 6004 2RS
608	2		PC side roller
609	8		External circlips 20x1.2
610	1		PC Pivot
611	2		PC arm
612	2		Washer M12
613	2		BAF2 Ø30
614	2		TH screw M10 x 20
615	2		Washer M10
616	2		Nut M30
617	2 / 3		PC spring axle
618	1		Cable Press rod
619	2 / 3		Spring
620	2		PC spacer
621	1 / 2		Central roller



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Key	Qty	Part N°	Designation
701	8	13212-K	Washer M12
702	16	13311	Washer M30
	20		
	24		
703	4	13433-K	Screw H FR M12
704	8	13291	Nut H M30
	10		
	12		
705	4	13084	Screw H M12x35
706	8	V2029	Screw H M30x65
	10	V2061	Screw H M30x65
	12	V2061	Screw H M30x90
707	1		Chassis (2400-4200-6500 Drum 300)
			Chassis (2400-4200-6500 Drum 600 Standard)
			Chassis (2400-4200-6500 Drum 900)
			Chassis (2400-4200-6500 Drum 1200)
			Chassis (10000)
			Chassis (15000)
708	1		Crossbar (2400-4200-6500)
			Crossbar (10000)
			Crossbar (15000)

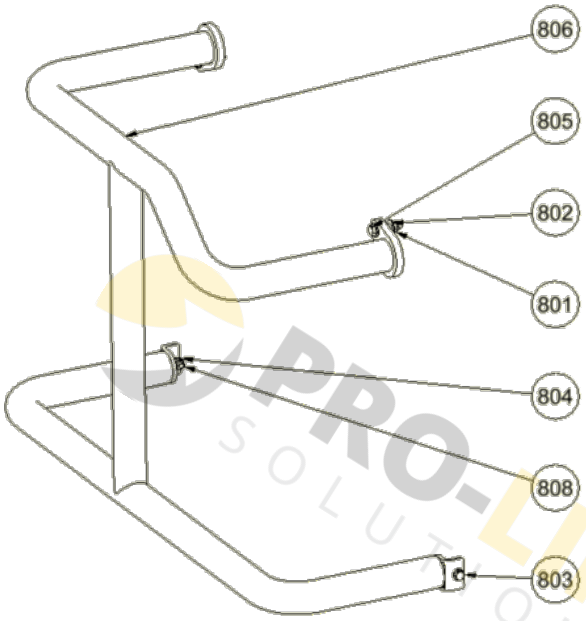


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800 Rollbar protection (option)

Key	Qty	Part N°	Designation
801	2	13433	Nylon ring nut M12
802	4	13212	Washer M12
803	2	13334	TH screw M10 x 40
804	4	13306	Washer M10
805	2	13396	TH screw M12 x 55
806	1		SE Protection TRAKZIO 6500
			SE Protection TRAKZIO 10000
			SE Protection TRAKZIO 15000
808	2	13020	Nylon ring nut M10

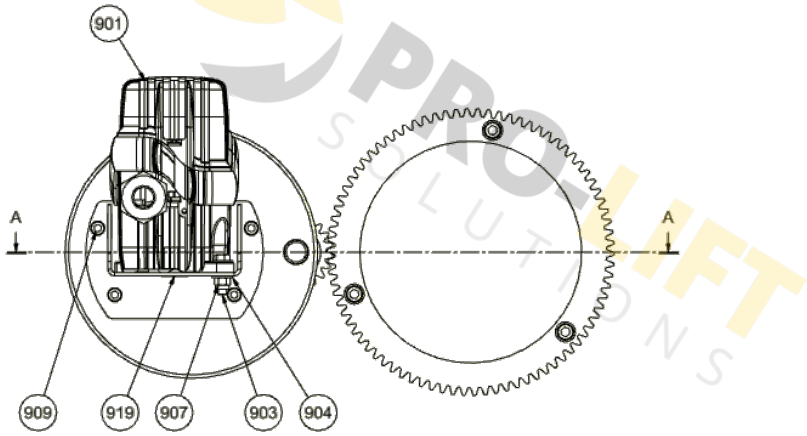


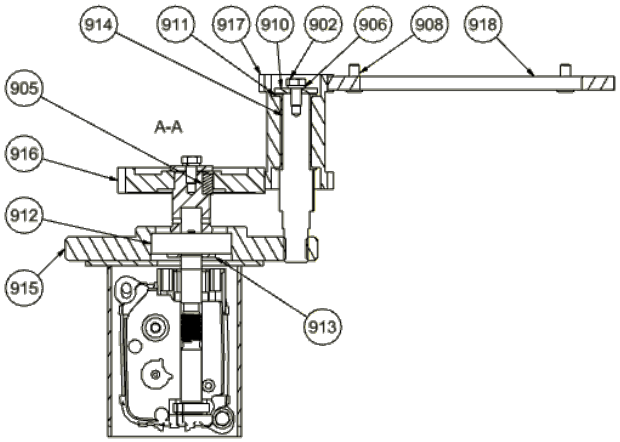
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900 Limit switch (option)

Key	Qty	Part N°	Designation
901	1		FDC box
902	2	13057	Screw H M6x12
903	1	13203	Screw H M5x20
904	2	13208	Washer M5
905	1	13233	Pin 6 x 6 x 12 FC
906	2	13321	GROWER Washer W 6
907	1	13351-K	Screw H FR M5
908	3	13426	Screw C HC M6x10
909	4	13614	Screw C HC M5x10
910	2	23947	Motor washer ha80
911	2	2761	Ring GFM 1618-09
912	1	3352	Bearing 6005 2RS
913	1	65654	Limit switch TER axis (2400-4200-6500-10000)
			Limit switch TER axis (15000)
914	1	65655	Offset pinion (2400-4200-6500-10000)
			Offset pinion (15000)
915	1	65656	Flange for TER
916	1	65657	Sprocket 41 teeth m2
917	1	65658	Offset sprocket 20 teeth
918	1	65659	Wheel 82 teeth m2
919	1	65660	Limit switch FOX support

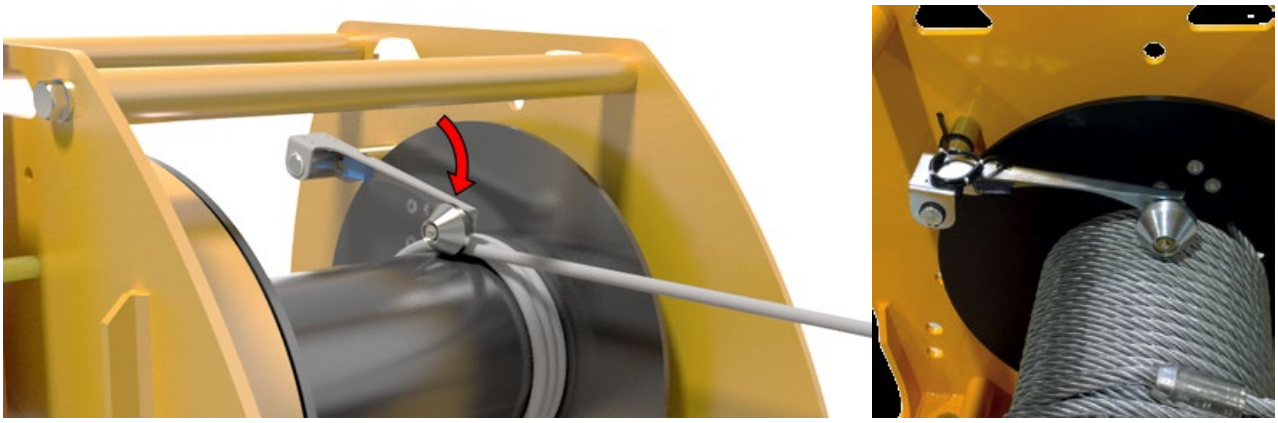




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B- THREE DEAD TURNS DETECTOR LIMIT SWITCH



Limit switch on unwinding = detection of 3 dead turns.

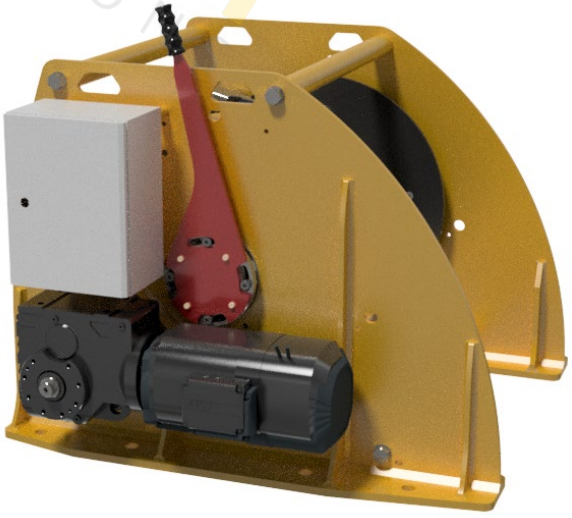
When there are only 3 turns of cable left on the drum, the roller sensor will drop down to make contact with the drum and the winch will stop. From this point, it will no longer be possible to unwind, but it will still be possible to rewind.

C- DRUM DISENGAGING SYSTEM

The TRAKZIO winch is equipped with a manual clutch system for the idle drum.



Engaged position :
the winch will function normally by the winch.



Disengaged :
the drum is no longer driven motor.

WARNING !
Before disengaging, ensure that no load is applied to the winch. Forcing the clutch lever can damage the system.

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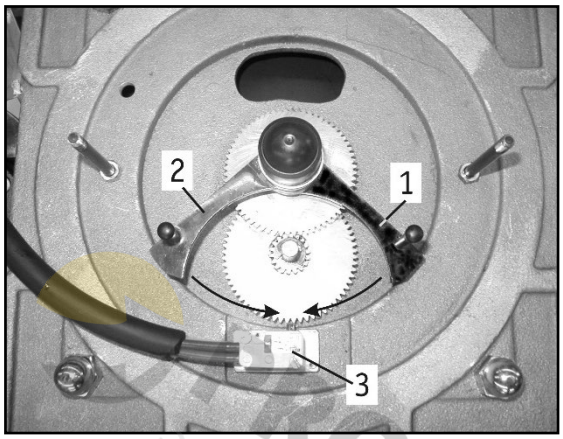
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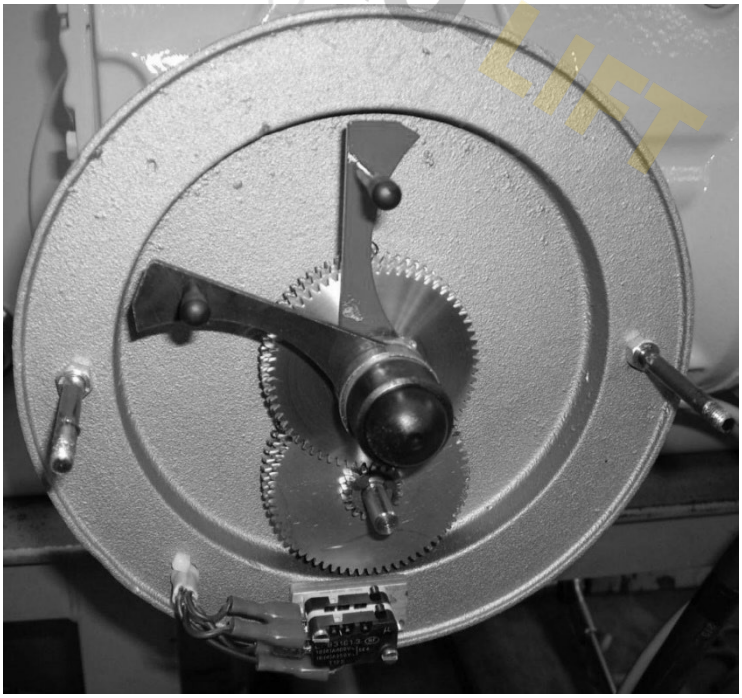
A. Clock type limit switch setting

Remove the protective cover (inside the cover you will find the following diagram); the levers, which are now accessible, can be moved manually by rotation.

Setting the winding stop point (upper limit switch):
Wind the rope to the desired maximum winding point. Stop the winch.
While maintaining this position, move the lever (2) manually to the lowest position on the rotation ring where this activates the contact (3)

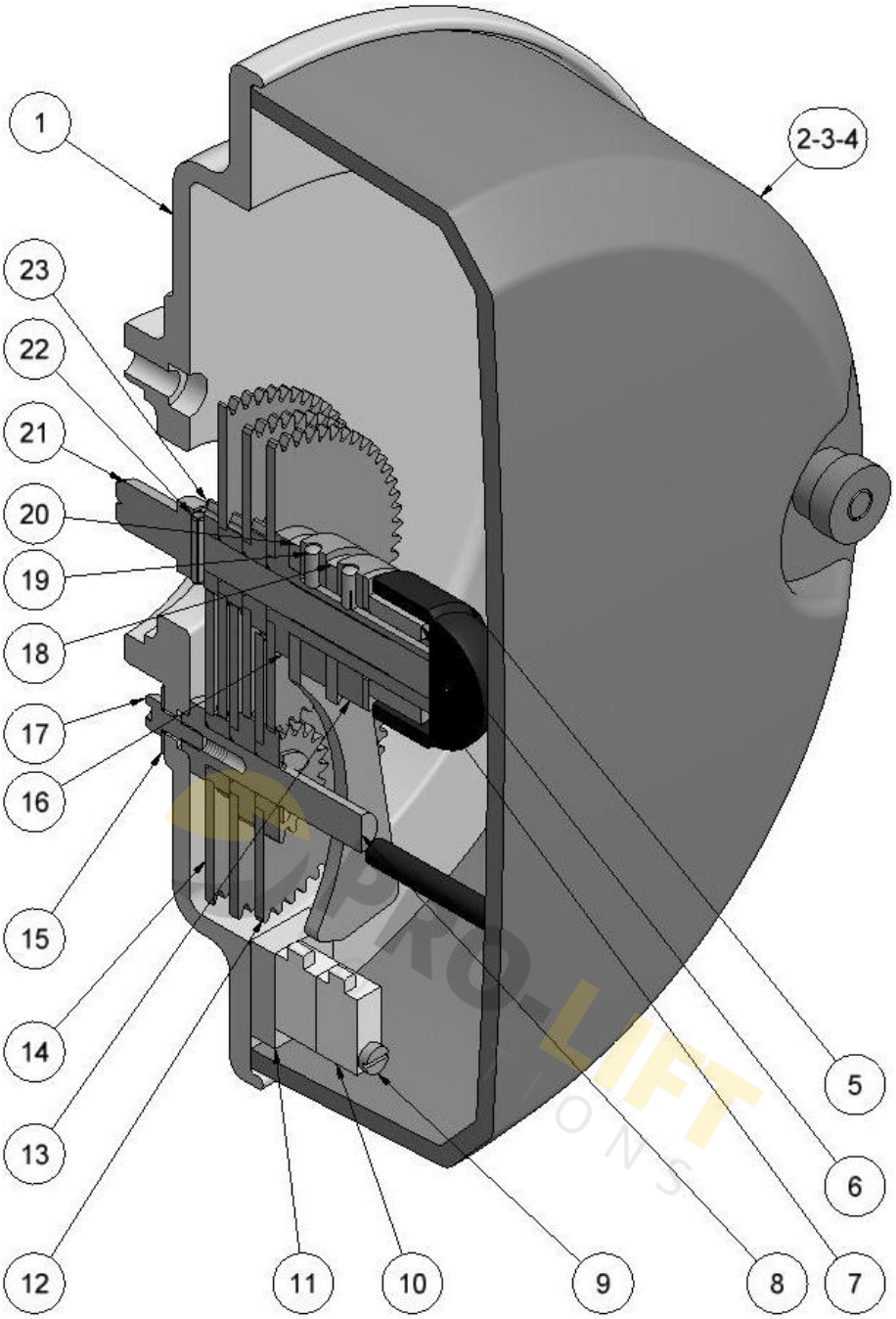
Setting the unwinding stop point (lower limit switch):
Unwind the rope to the desired maximum unwinding point. Stop the winch.
While maintaining this position, move the other lever (1) manually to the lowest position on the rotation ring where this activates the contact (3)





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Article	Reference
1	20886
2	4907
3	4909
4	4908
5	3036
6	13023
7	13244
8	20883
9	13244
10	3683
11	20781
12	4914

Article	Reference
13	20787
14	4912
15	13370
16	4925
17	13121
18	4939
19	3025
20	4940
21	20884
22	13384
23	4915

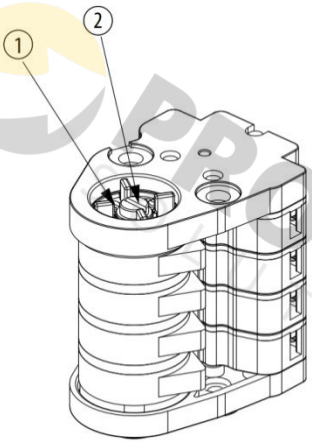
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A. Rotary limit switch settings, cam type IP 66







Always switch off the main power supply before working on the winch.

For correct cam adjustment, loosen the central screw ② of the cam group. Then, set the intervention point of each cam using the adjusting screws①. The screws are numbered to indicate the cams in ascending order from the bottom to the top of the group. Tighten the centre screw.

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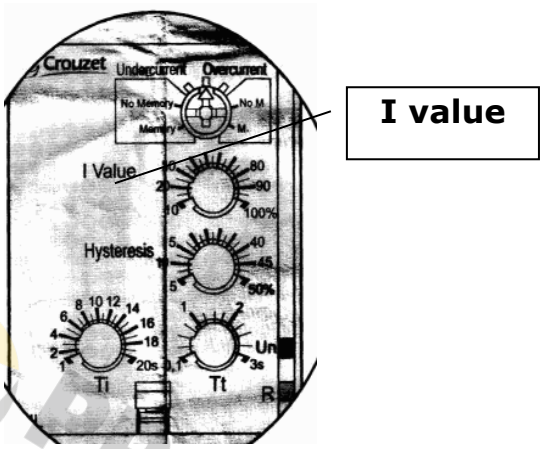
a) With CROUZET load limiter

The winch is adjusted in the factory with the electrical voltage indicated on the test report enclosed with this instruction manual. If this voltage is different in the place of use, the setting must be readjusted.

In the event of overloading of the winch, a load limitation by motor current measurement cuts the lift control.
Once you have identified and eliminated the cause of the load limiter activation, use the key-activated turning button on the right of the unit to reset the load limiter and use the winch again.

Adjust the sensitivity of the load limiter by adjusting the "I value" on the limiter using a small slotted screwdriver:

The load limiter is adjusted in the factory to the value of about 110% of its MCU.



IMPORTANT!
Setting the threshold too high may lead to major risks both for the equipment and the operators.

DANGER: RISK OF ELECTROCUTION, EXPLOSION OR ELECTRIC ARC.

Switch the power off before installing, wiring or performing a maintenance operation.
Check that the power supply voltage of the product, with its tolerances, is compatible with that of the network.

Non compliance with this instruction will cause death or serious injury.

WARNING: UNEXPECTED OPERATION OF THE EQUIPMENT

This product must not be used in the capacity of the critical functions of a safety machine.
Wherever there is a risk to the personnel and/or equipment, use the appropriate hard-wired safety lugs.
Please do not disassemble, repair or modify the product.
Respect the installation and operating conditions of the product described in this document.

Non compliance with this directive may cause death, serious bodily injury or material damage.

Electrical equipment must be installed, operated and serviced by qualified personnel.

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OPTIONS : ROPE SLACK SWITCH

There are different positions according to the desired rope outlet. The rope outlet must therefore be defined for the order.

This option allows you to detect a lack of tautness in the rope, for example due to a load placed on the ground. It stops the movement but allows reverse movement.
The equipment is adjusted in the factory but this should be repeated once you have installed the machine.

OPTIONS : ROPE PRESS SYSTEM

This option allows you to hold the rope in the drum groove when there is no load on it.

There are different positions according to the desired rope outlet. The rope outlet must therefore be defined for the order.

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The English version of the maintenance booklet for our lifting winches can be downloaded from our website www.huchez.fr/uk **under the heading "After sales services".**

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Date	Person In charge Company	Person In charge Name	Nature of the operation	References of replaced parts	Frequency if appropriate	Signature

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