

Quality, Safety & Realibility since 1966





Lofrans was founded in 1966 in Monza and since the beginning has focused its attention on a single product range: the anchor windlass.

During this period of more than forty-five years, all human and technical resources have focused on a specific target, to design and create a product of the highest quality and performance.



One of first anchor windlasses built in 1966



Lofrans' Now

The intensive research of new anchoring solutions having the ability to operate in the marine environment, has lead us to build up a strong relationship with a group of carefully selected suppliers, whose long term co-operation has helped us in the construction of the components for our anchor windlasses.

This synergy gave us the ability to produce top level products in terms of quality and performance. We have been rewarded by the market which considers us the leader of this product.



With the latest CATIA CAD software, our engineers are constantly developing ideas and innovative solutions with regards to product evolution. The integration of these designs to our CAM system ensures that the switch from a conceptual idea to the actual produced component is achieved in a flawless manner.

Being one of the most weatherbeaten and mechanically challenged equipment on the deck, a windlass could not stand anything else than premium materials. Our products utilize only specific marine materials, able to withstand marine corrosion and treated in such way so as to increase their mechanical strength.

At Lofrans, we believe that durability and performance start with an extremely stringent selection of components: only AISI 316 L stainless steel, marine grade metals and electric motors designed to deliver high torque in all conditions.

Most of our components are produced by hot pressing, a technology which guarantees minimal porosity in the metal and superior mechanical features.

The most exposed components are then chemically treated in order to slow down and minimize the process of marine corrosion.

Today our anchor windlasses and capstans are able to cover the needs for vessels with a length from 6 up to 50 meters, from a range consisting of more than 25 different models.

The production is carried out in our 5000 sqm factory in Monza, where our team of designers, technicians and qualified employees are located together with our finished stock and spare parts warehouse.

During the production process in our factory, we carry out several dimensional tests on components and final products by use of our 3D co-ordinate measuring machine, as well as marine corrosion tests in a special marine environment chamber, which simulates the harshest of marine environments.

Our products meet the requirements of the most important classification societies such as RINA, BV, DNV and several others.

An important part of the Lofrans' organization is the sales and the service, which are guaranteed through a worldwide network of more than forty official distributors in the most important marine markets.

The success of Lofrans products is testified by the fact that our products are installed as standard on vessels of the most important and well reputed OEMs globally.

Since the beginning of 20 13, great amounts have been invested to ensure that longevity, evolution, quality and control are guaranteed for the further development of Lofrans'. Major investments included the installation of the SAP ERP, the installation of a WMS (Warehouse Management System) integrated with hand held scanner order picking, additional Product Quality Assurance systems and Distributor order automation via an in-house B2B ordering tool.







Why is it necessary to install an anchor windlass?

There are two main reasons: Safety and Utility. The anchor windlass on your vessel allows you to handle different anchoring situations, even the most critical, always under complete safety. Every anchoring operation will be extremely simple, fast and firm under your control. No more fear of failing to recover your anchor and every anchoring will be a pleasure. No more heavy and complicated operations. Installing an anchor windlass means making an investment on the safety of your crew and your vessel.

And what about a capstan?

Capstans are normally installed on the stern of the boat for mooring maneuvers. They are equally suitable for recreational boats, fishing and commercial vessels. One or two capstans -depending on boat size and displacement- are installed on the boat in conjunction with an anchor windlass. Capstans are monitored by a set of foot switches, leaving your hands free for rope handling. The range of Lofrans capstans is designed for boats from 6 to 45 m (18 to 150').

Why choose a Lofrans' anchor windlass?

The strong point of every successful manufacturer is the quality, the reliability and the support they provide for their products.

- Does the product work properly as was stated by the manufacturer?
- Is the product worth the price paid for it?
- Is the product still reliable after years of use?
- Is there a reliable after sales support organization, able to directly respond to end-user requests from anywhere around the world?

If the product is a Lofrans', the answer to these questions is definitely YES.

We do not say this by ourselves, but it is said by the thousands and thousands of our satisfied customers all over the world who chose our products, making Lofrans' today the most popular manufacturer of anchor windlasses.

This important result is more than anything a testimony of the quality of our product and the great reputation of the Lofrans' brand globally.







Designing and producing windlasses for more than 45 years has made us gain a lot of experience about our products. This knowledge and experience has been evolving constantly year after year. We fully understood that to give real quality to our product, we would need to take care of all the details as they would make the final difference in a product that is considered a market leader.

In Lofrans we look at the quality in two directions:

- The quality that comes from the perception of the product by the end user, which has pushed us to design and build an attractive product.
- The quality in terms of engineering reliability and performance, which lead us to conceive and create a product able to withstand the extreme marine conditions and yet would be simple to install, operate and maintain.

Always at the cutting edge of technique in electro-mechanics, Lofrans was often a pioneer and created solutions which have now become standard.

We were the first to introduce to the market products and solutions, such as the AUTOMATIC FREE FALL, the CONTROL BOX, and last but not least, the PROJECT versions of our X range, a last generation "PLUG&PLAY" anchor windlass, with a built-in solenoid motor and rich of other innovations, which have succeeded in merging technology and function to give the end user the maximum reliability and safety.

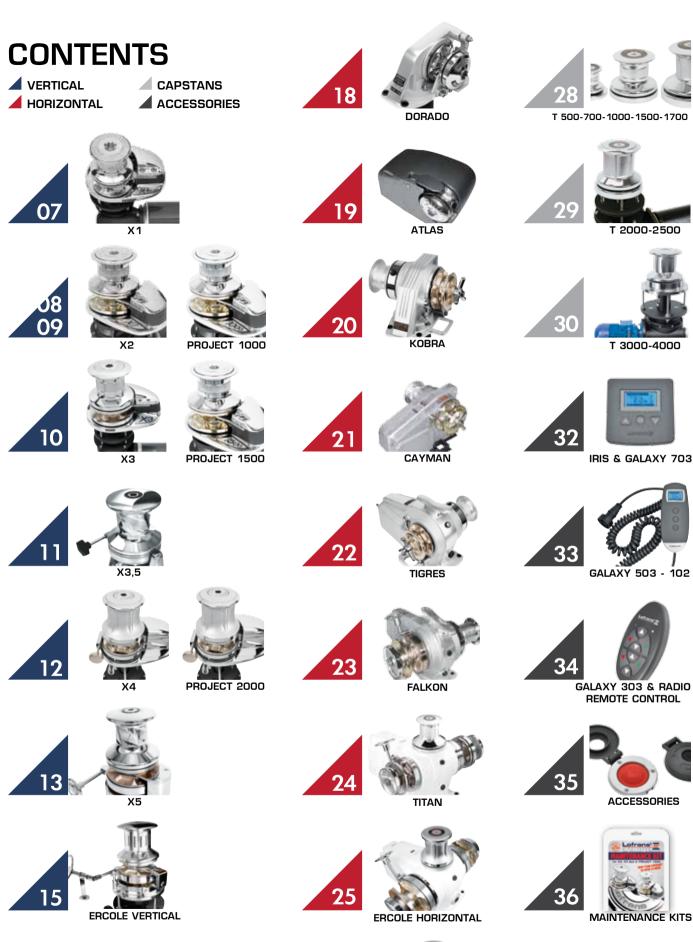
Using this configuration, the installation of the product was made faster, easier and the reliability of the chain-counter system greatly improved. This motor was initially installed on our Project 1000, which received the DAME award, and was then subsequently installed on models Project 1500 and Project 2000.

Our anchor windlass for vessels over 60 feet have a transmission made by planetary-worm screw gears, which is very compact in size but at the same time is able to reach high ratio, necessary for vessels of these dimensions.

All Lofrans' products are engineered, designed and built focusing on the marine environment. Our know-how, which comes from our huge 45 years experience, is placed at the customers' disposal.

We are able to propose and supply custom designed-and-built products which meet each customer's individual requirements. The quality of our products is also certified by their own long lasting reliable performance.



















X SERIES & PROJECT

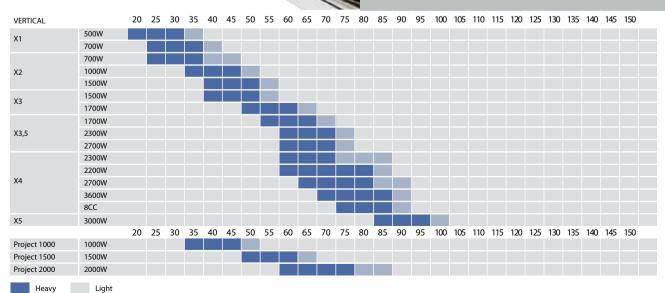
VERTICAL WINDLASSES

The X vertical windlass range series is designed to provide anchoring solutions for sail and motor boats from 18 to 100 feet. The X series is made up by the following models: X1, X2, X3, X3.5, X4 and X5 all available in standard version with drum and in low profile version. The Project versions have a built-in control box within the motor casing. All models are available in different motorization to meet any customers' requirements.

The X range, as standard, comes in mirror polished marine bronze produced by hot forging. For model X2 there is the INOX version in mirror polished AISI 3 16L stainless steel. Stainless steel is used to produce the top part of the windlass, being the most exposed on the vessel so that it can withstand marine corrosion.

INNOVATIVE SOLUTIONS

- Watertight stainless steel ball bearings in the base, in order to have maintenance-free top performance functionality.
- Clutch consisting of two conical discs, fitted on to the main shaft by two flat parallel planes on the shaft, thus avoiding the use of keys and spreading the load on a wider surface.
- The X series as standard is provided with a pre-fitted sensor in the base and a magnet in the Gypsy, in order to be connected to an optional chain counter system.
- Models X 1, X2 and X3 have a Gypsy designed to manage both rope and chain
- Independent drum rotation from Gypsy, for warping operation.
- Manual override, enabling the windlass to recover the chain and anchor in the event of electrical failure. The manual override mechanism is within the gearbox, made up by a spring loaded ratchet, whose secondary function is to provide a safety mechanism so that chain jams do not damage the deck.













Construction	Aluminium	Chromed bronze				
Motor size	500 W	500 W	700 W	1000 W		
Power Supply (V)	12	12	12	12		
Maximum Linea Load (kg)	630	630	700	900		
Maximum Lift Load (kg)	345	345	380	425		
Lift working load (kg)	95	95	100	125		
Amps Work Load (A)	60	60	110	120		
Line Speed (m/min)	23	23	25	20		
Max Line Speed (m/min)	26	26	28	30		
Net Weight Low Profile (kg)	10	11	13	16		
Net Weight with Drum (kg)	11	12	14	17		
Control Box		Included	in package			

X1	0000000	-	Code	Code	Code	Code
Low	6 mm, ISO 4565 / DIN 766	10-12 mm, 3-strand	409557	472880	473217	*
profile	8 mm, ISO 4565 / DIN 766	12 mm, 3-strand	*	187269	473002	600093
With drum	6 mm, ISO 4565 / DIN 766	10-12 mm, 3-strand	409558	472881	473207	*
vvitri drum	8 mm, ISO 4565 / DIN 766	12 mm, 3-strand	*	187270	473003	600092

^{*}Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table below.

Main features

- Luxury chrome bronze base and drum
- With drum or without drum
- Indepent Gypsy and drum operation
- Rope and chain combination Gypsy
- Manual chain release
- Rope chain management by the spring load arm
- Chain counter pre-setting as standard
- Heavy duty rated IP67 electric motor
- Anodised marine aluminium gearbox



Compatible Gypsies

Code	Gypsy Size						
630970	6 mm, ISO 4565 / DIN 766						
630980	7 mm, ISO 4565						
630999	8 mm, ISO 4565 / DIN 766						



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AS GOOD AS NEW!

for X1

Code....**72037**





X2 & PROJECT 1000 - Vertical Windlasses







X2										
Construction	316 L Stainless Steel			Aluminium			CI	nromed bronz	romed bronze	
Motor size	1000 W	700W	100	0 W	150	0 W	700W	1000 W		
Power Supply (V)	12	12	12	24	12	24	12	12	24	
Maximum Linea Load (kg)	1000	850	1000	1060	1200	1270	850	1000	1060	
Maximum Lift Load (kg)	500	460	500	530	600	635	460	500	530	
Lift working load (kg)	150	115	150	160	165	175	115	150	160	
Amps Work Load (A)	117	110	117	59	130	65	110	117	59	
Line Speed (m/min)	25	19	17	25	16	16	30	25	25	
Max Line Speed (m/min)	45	25	23	45	28	28	35	45	45	
Net Weight Low Profile (kg)	23	18	19	23	24	24	21	23	23	
Net Weight with Drum (kg)	24	19	20	24	25	25	23	24	24	
Control Box				Include	d in package					

X2	000		Code								
	6 mm, ISO 4565 / DIN 766	-	*	600045	600050	*	*	*	600047	600989	*
Low	8 mm, ISO 4565 / DIN 766	14 mm, 3-strand	187283	472558	472557	*	*	601065	472861	473213	600054
	10 mm, DIN 766	-	*	*	*	*	601055	601067	*	602097	473226
	10 mm, ISO 4565	-	*	*	57450	*	601054	601066	*	472864	478642
	6 mm, ISO 4565 / DIN 766	-	*	600044	600049	*	*	*	600046	600997	*
With	8 mm, ISO 4565 / DIN 766	14 mm, 3-strand	187284	472735	472751	472750	600057	600061	472862	473212	473255
	10 mm, DIN 766	-	*	*	*	*	*	601068	*	602096	473227
	10 mm, ISO 4565	-	*	*	600053	*	600056	600060	*	472863	*

^{*}Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table in next page.

Main features

- Luxury chrome bronze base and drum
- Luxury stainless steel base and drum (Plus version)
- Special watertight stainless steel ball bearing in
- With drum or without drum
- Indepent Gypsy and drum operation
- Rope and chain combination Gypsy
- Manual chain release

- Manual override
- Rope chain management by the spring load arm
- Chain counter pre-setting as standard
- Heavy duty rated IP67 electric motor (X2)
- Heavy duty two speed built in solenoids rated IP67 electric motor (PROJECT 1000)
- Anodised marine aluminium gearbox







PROJECT 1000					
Construction	Chromed bronze				
Motor size	100	00 W			
Power Supply (V)	12	24			
Maximum Linea Load (kg)	1000	1060			
Maximum Lift Load (kg)	500	530			
Lift working load (kg)	150	160			
Amps Work Load (A)	130	65			
Line Speed (m/min)	25	25			
Max Line Speed (m/min)	50	50			
Net Weight Low Profile (kg)	22	22			
Net Weight with Drum (kg)	24	24			
Control Box	Bu	ild in			

PROJECT 1000	000		Code	Code
Low	8 mm, ISO 4565 / DIN 766	14 mm, 3-strand	220153	*
profile	10 mm, DIN 766	-	602093	473280
	10 mm, ISO 4565	-	471022	*
With	8 mm, ISO 4565 / DIN 766	14 mm, 3-strand	220159	478645
drum	10 mm, DIN 766	-	602092	471023
	10 mm, ISO 4565	-	428419	*



Compatible Gypsies

Code	Gypsy Size				
630953	6 mm, ISO 4565 / DIN 766				
630949	8 mm, ISO 4565 / DIN 766				
630951	10mm, ISO 4565				
630955	10mm, / DIN 766				

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Maintenance Kit for X2 & Project 1000

Code....72038



Maintenance Kit

for X2 ALU

Code....72039





X3 & PROJECT 1500 - Vertical Windlasses







Construction			PROJECT 1500 Chromed bronze			
Construction	Aluminium	Aluminium Chromed bronze				
Motor size	1700W	1500W	17	00 W	1500 W	
Power Supply (V)	12	12	12	24	12	24
Maximum Linea Load (kg)	1600	1200	1600	1695	1600	1695
Maximum Lift Load (kg)	800	600	800	850	800	850
Lift working load (kg)	200	165	200	215	200	215
Amps Work Load (A)	135	130	135	68	135	68
Line Speed (m/min)	15	15	15	15	16	16
Max Line Speed (m/min)	32	35	32	32	32	32
Net Weight Low Profile (kg)		32	35	35	36	36
Net Weight with Drum (kg)		35	38	38	39	39
Control Box		Included	d in package	*	Bui	ild in

	000	- Anna Anna	Code	Code	Code	Code	Code	Code
	8 mm, ISO 4565 / DIN 766	14 mm, 3-strand	601128	601070	600065	*	187311	600591
l au profile	10 mm, DIN 766	16 mm, 3-strand	*	*	602102	602104	602095	602090
Low profile	10 mm, ISO 4565	16 mm, 3-strand	601129	472866	473209	473256	472401	187313
	12 mm, ISO 4565 / 13mm, DIN 766	18 mm, 3-strand	*	601075	472842	473006	474003	187315
	8 mm, ISO 4565 / DIN 766	14 mm, 3-strand	57451	601079	600064	600068	187312	600593
Mith drum	10 mm, DIN 766	16 mm, 3-strand	57452	*	602101	602103	602094	602091
With drum	10 mm, ISO 4565	16 mm, 3-strand	*	472865	473208	473252	472400	187314
	12 mm, ISO 4565 / 13mm, DIN 766	18 mm, 3-strand	57453	601084	473004	473005	600588	187316

^{*}Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table below.

Main features

- Luxury chrome bronze base and drum
- Luxury stainless steel base and drum (Plus version)
- · Special watertight stainless steel ball bearing in the base
- With drum or without drum
- Indepent Gypsy and drum operation
- Rope and chain combination Gypsy
- Manual chain release
- Manual override
- · Rope chain management by the spring load arm
- Chain counter pre-setting as standard
- Heavy duty rated IP66 electric motor (X3)
- Heavy duty two speed built in solenoids rated IP66 electric motor (PROJECT 1500)
- Anodised marine aluminium gearbox



Compatible Gypsies

Code	(Gypsy Size
630957	8 mm, ISC	4565 / DIN 766
630966	10mm,	/ DIN 766
630959	10mm, ISC	4565
630961	12mm, ISC	4565



Maintenance Kit for X3, X3ALU & Project 1500

Code....72040





X3.5 - Vertical Windlasses



Construction		316 L Stainless Steel						
Motor size	170	00 W	2300 W	2700W				
Power Supply (V)	12			24				
Maximum Linea Load (kg)	1700	1750	2000	2400				
Maximum Lift Load (kg)	850	815	1000	1200				
Lift working load (kg)	215	220	265	320				
Amps Work Load (A)	135	68	110	125				
Line Speed (m/min)	15	15	18	18				
Max Line Speed (m/min)	32	32	30	32				
Net Weight with Drum (kg)	50	50	60	60				
Control Box		Included in package						

X3,5	0000	Code	Code	Code	Code
	10 mm, ISO 4565	600084	600085	*	*
With drum	12 mm, ISO 4565	600086	600087	600088	*
	14 mm	*	*	*	600090

^{*}Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table below.

Main features

- Luxury stainless steel base and drum
- With drum or without drum
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Chain counter pre-setting as standard
- Heavy duty rated IP44 electric motor
- Anodised marine aluminium gearbox



Compatible Gypsies

Code	Gypsy Size
630996	8 mm, ISO 4565 / DIN 766
631022	10mm, ISO 4565
631132	10mm, / DIN 766
631031	12mm, ISO 4565
631059	14mm
631033	1/2" BBB
631036	1/2" G40





X4 & PROJECT2000 - Vertical Windlasses





O-material land		X4		PROJECT 2000	
Construction		Chromed bronz	ze	Chromed bronze	
Motor size	2300 W	2700W	Hydraulic - 8cc	2000 W	
Power Supply (V)	24	24	-	24	
Maximum Linea Load (kg)	2000	2400	2500	2000	
Maximum Lift Load (kg)	1000	1200	1250	1000	
Lift working load (kg)	545	650	680	545	
Amps Work Load (A)	190	200	-	190	
Line Speed (m/min)	12	15	16	12	
Max Line Speed (m/min)	27	29	16	27	
Net Weight Low Profile (kg)	72	75	45	76	
Net Weight with Drum (kg)	82	85	55	86	
Hydraulic Pressure (bar)	-	-	200	-	
Hydraulic Flow (It/min)	-	-	32	-	
Control Box		Included in packa	ige	Build in	

X4	600	Type**	Code	Code	Code	PROJECT 2000	0000	Code
Low profile	12 mm, ISO 4565	ccw	601142	601159	*		10 mm, DIN 766	600599
	10 mm, ISO 4565	10 mm, ISO 4565 cw 600073 * *	*	lel-	10 mm, ISO 4565	600598		
	12 mm, ISO 4565	cw	473007	600075	602361	Low profile	40 DIN 700	470740
With drum 14 mm 12 mm, ISO 4565 14 mm	cw	*	472849	602362		12 mm, DIN 766	472748	
	12 mm, ISO 4565	ccw	600074	*	602363	With drum	12 mm, DIN 766	472749
	14 mm	ccw	*	*	602364	vviui urum	14 mm	473010

*Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table below.

Main features

- Luxury chrome bronze base and drum
- · Special watertight stainless steel ball bearing in the base
- With drum or without drum
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Chain counter pre-setting as standard
- Heavy duty rated IP44 electric motor (X4)
- · Heavy duty two speed built in solenoids rated IP67 electric motor (PROJECT 2000)
- · Anodised marine aluminium gearbox

* * cw: the windlass pulls clockwise ccw: the windlass pulls counter clockwise

Kits

Code	Description	
474013 KIT A - Seals		
474012	KIT B - Screws	
474011	KIT C - Pins	
474010	KIT D - Circlips	

Compatible

Gypsies	
Code	Gypsy Size
630996	8 mm, ISO 4565 / DIN 766
631022	10mm, ISO 4565
631132	10mm, / DIN 766
631031	12mm, ISO 4565 / 13mm, DIN 766
631059	14mm
631033	1/2" BBB
631036	1/2" G40



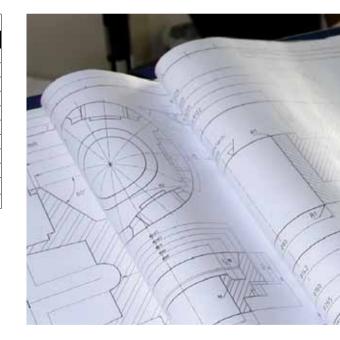


- Vertical Windlasses



Construction	316 L Stainless Steel				
Motor size	3000 W	Hydraulic			
Power Supply (V)	24	-			
Maximum Linea Load (kg)	2800	2500			
Maximum Lift Load (kg)	1400	1250			
Lift working load (kg)	760	680			
Amps Work Load (A)	250	-			
Line Speed (m/min)	12	16			
Max Line Speed (m/min)	30	16			
Net Weight with Drum (kg)	100	55			
Hydraulic Pressure (bar)	-	200			
Hydraulic Flow (lt/min)	-	32			
Control Box	Included	in package			

X5	00000000	Code	Code
NACH I	12 mm, ISO 4565	600089	602389
With drum	14 mm	600091	602390



Main features

- Luxury stainless steel base and drum (Plus version)
- With drum or without drum
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Chain counter pre-setting as standard
- Heavy duty rated IP44 electric motor
- Anodised marine aluminium gearbox



Compatible Gypsies

Code Gypsy Size			
631039	12mm, ISO 4565 / 13mm, DIN 766		
631065	14mm		

Please refer to accessories section for control and installation products (see pages 31-37)

13



ERCOLE VERTICAL

VERTICAL WINDLASSES

This range of anchor windlasses has been designed to meet requirements of vessels with a length over 24 meters.

These boats require well-designed professional equipment, with a high mechanical performance and a high level of reliability.

The windlass is constructed using AISI 316L stainless steel, with a gearbox design giving it a performance, in terms of maximum pull and speed, that makes this model a reference point in its category.

Lofrans' has achieved an excellent reputation for these specific anchor windlasses, which are installed on the most prestigious maxi-yachts throughout the world.

Main features are:

- Under-deck compact dimensions.
- Construction in mirror polished AISI 316L stainless steel.
- High torque latest generation electric motor able to provide the power needed in all marine conditions.
- Band brake to assist in chain control, thanks to an easy-to-manage large hand-wheel.
- Special high-grip drum with independent rotation from the Gypsy, for warping function.
- Manual override to recover the chain and anchor in case of electrical failure.
- Internal ratchet to prevent chain jams into the chain cocker which could damage the deck.
- Chain counter support integrated by the sensor inserted in the base and the magnet in the Gypsy.
- Available also in counter clockwise rotation.
- High efficiency Lofrans planetary worm screw gearbox made in anodized black aluminium with gears made in high mechanical strength material.
- Power: DC, AC and hydraulic
- Available in custom versions.

Please contact us for additional detailed documentation.





Vertical Windlasses



Max Line Speed (m/min)

Hydraulic Pressure (bar)

Hydraulic Flow (It/min)

Control Box

Net Weight with Drum (kg)



- Luxury stainless steel base and drum (Plus version)
- With drum or without drum
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Chain counter pre-setting as standard
- Heavy duty rated IP44 electric motor
- Anodised marine aluminium gearbox

Construction		tainless Steel		
Motor size	3500 W	4000 W	5500 W	Hydraulic - 11cc
Power Supply (V)	24	400	400	-
Maximum Linea Load (kg)	4500	2200	6500	6500
Maximum Lift Load (kg)	2250	1100	3250	3250
Lift working load (kg)	705	565	1550	1550
Amps Work Load (A)	120	-	-	-
Line Speed (m/min)	8	16	12	12

ERCOLE VERTICALE	000	Туре	Code	Code	Code	Code
	14 mm	cw	600080	600082	*	602523
With drum	16 mm	cw	*	*	600409	602525
With drum	14 mm	ccw	600081	600083	*	602524
	16 mm	ccw	*	*	600408	602526

15

180

16

80

12

198

Included in package

12

160

200

40

*Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table below.



Compatible Gypsies

Code	Gypsy Size			
631019	10mm, ISO 4565			
631039	12mm, ISO 4565 / 13mm, DIN 766			
631065	14mm			
631085	13mm. / DIN 764			

Code	Gypsy Size		
631082	16mm		
631088	16mm,	/ DIN 766	
631101	18mm		
631095	18mm,	/ DIN 766	
631113	20mm		
630989	14,5mm, UNI4417		
631068	14 STUD LINK		
631092	16 STUD LINK		
631098	17,5 STUD LINK		
631053	1/2" STUD LINK		
631056	13 ITALMET		

Kits

Code	Description	
418428	KIT A - Seals	
418475	KIT B - Screws	
418499	KIT C - Pins	
418556	KIT D - Circlips	

^{* *} cw: the windlass pulls clockwise ccw: the windlass pulls counter clockwise





STANDARD EQUIPMENT:

Dual direction solenoid pack
Handle
Gypsy for chain
Instruction manual
Warranty
OPTIONAL EQUIPMENT
Circuit breaker
Remote control panel UP/DOWN
Footswitch UP/DOWN
Chain counter wire or wireless
Automatic Free Fall for Kobra and Cayman 88
models only

HORIZONTAL WINDLASSES

The range of horizontal windlasses is suitable for boats from 18 up to 150 feet offering the best in performance and functionality, when there is adequate deck space or if the chain locker has limited size or accessibility. They are simple, reliable, with their classic and timeless style making them perfect for many vessels, especially for the charter business.

Material and finish, marine grade aluminium alloy: Our horizontal anchor windlasses are produced using marine grade aluminium alloy. The body is polished and anodised. Most of the components are made by hot forging. The horizontal models are available as standard in anodized aluminium. Some models are available with a painted white polyester coating.

High performance motors: The horizontal windlasses' electric motors have been designed to supply high torque in all working conditions. They are available in 12 or 24 Volt DC current and 230-440 V three phase AC current. Most of the motors have an IP66 rating with a galvanized body painted with a polyester coating. Our electric motors are specified to provide the necessary power for long run time. They are also designed to operate at an increased speed and so reducing operating time. Titan, Ercole and Super Ercole are also available in hydraulic motor versions.

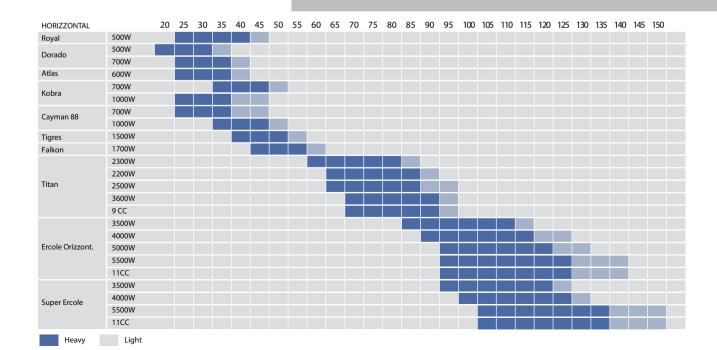
Lofrans gearboxes: Most of our horizontal windlasses use a Lofrans-made high efficiency worm screw gearbox. It is non-reversible with the gears produced with specific material able to withstand high-load strain. All gearboxes are oil lubricated in order to minimize working noise. The models for superior boats use a special Lofrans planetary - worm screw gearbox which allows them to have a high efficiency to dimension ratio.

Manual override: Most of the Lofrans horizontal windlasses are supplied with manual override which makes the windlass capable of chain recovery in the event of electrical failure. The manual override has the secondary function to provide a safety mechanism so that chain jams do not damage the deck. Independent drum from the Gypsy: Horizontal models give the choice of utilizing the drum for warping operations independently from the Gypsy.

Automatic free fall: Models KOBRA and CAYMAN 88 can optionally have a device installed named AUTOMATIC FREE FALL. This device allows disengaging the clutch automatically by pushing the "Down" button of the remote control unit. Disengaging the clutch, the Gypsy rotates freely and the weight of the anchor releases the chain into the water.

Rope and chain management: Models DORADO and ATLAS are able to manage rope and chain by use of a special spring loaded tension arm called a finger, which pushes the rope deeply inside the Gypsy teeth.

CUSTOM PRODUCT: Models TITAN, ERCOLE and SUPER ERCOLE are available in six versions in order to meet all customer requirements.









Horizontal Windlasses



Construction	Anodised Aluminium
Motor size	MANUAL
Power Supply (V)	-
Maximum Linea Load (kg)	400
Maximum Lift Load (kg)	200
Lift working load (kg)	50
Amps Work Load (A)	-
Line Speed (m/min)	-
Max Line Speed (m/min)	-
Net Weight with Drum (kg)	10

ROYAL	000	Code
	6 mm, ISO 4565 / DIN 766	187323
	7 mm, ISO 4565	600625
With drum	8 mm, ISO 4565 / DIN 766	404725
	10 mm, DIN 766	600079
	10 mm, ISO 4565	220002

Main features

- Marine alluminim anodised body
- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override

Compatible Gypsies



Code	Gypsy Size	
630968	6 mm, ISO 4565 / DIN 766	
630978	7mm, ISO 4565	
630994	8 mm, ISO 4565 / DIN 766	
631118	10mm, DIN 766	
631011	10mm, ISO 4565	
631077	5/16 HT	
631120	3/8 BBB	
631122	3/8 PC	

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Maintenance Kit for ROYAL

Code....72046









Main features

- Marine alluminim anodised body
- Manual chain release
- Rope chain management by the spring load arm
- Heavy duty rated IP66 electric motor

Construction	Anodised	Anodised Aluminium	
Motor size	500 W	700 W	
Power Supply (V)	12	12	
Maximum Linea Load (kg)	630	900	
Maximum Lift Load (kg)	345	490	
Lift working load (kg)	95	125	
Amps Work Load (A)	60	110	
Line Speed (m/min)	23	25	
Max Line Speed (m/min)	25	25 27	
Net Weight Low Profile (kg)	10	10 11	
Control Box	Included in	Included in package	

DORADO	0000000	CHARLES CONTRACTOR	Туре	Code	Code
Low	6 mm, ISO 4565	10-12 mm, 3-strand	Port	409568	600048
profile	8 mm, ISO 4565 / DIN 766	12 mm, 3-strand	Port	*	409569

*Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies

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Maintenance Kit for DORADO

Code....72047



Compatible Gypsies

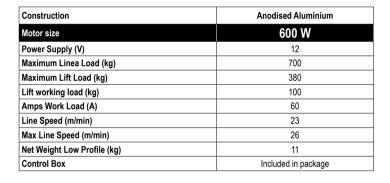
Code	Gypsy Size	
630974	6 mm, ISO 4565 / DIN 766	
630984	7mm, ISO 4565	
631003	8 mm, ISO 4565 / DIN 766	







Horizontal Windlasses



ATLAS	0000000		Code
	6 mm, ISO 4565	10-12 mm, 3-strand	600023
Low	7 mm, ISO 4565	12 mm, 3-strand	600024
profile	8 mm, ISO 4565 / DIN 766	12 mm, 3-strand	600025

Main features

- Marine alluminim anodised body
- Available in white polyester coating
- Manual chain release
- Rope chain management by the spring load arm
- Chain counter pre-setting as standard
- Heavy duty rated IP66 electric moto



Compatible Gypsies

Code	Gypsy Size	
631005	6 mm, ISO 4565 / DIN 766	
631007	7mm, ISO 4565	
631009	8 mm, ISO 4565 / DIN 766	

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Maintenance Kit for ATLAS

Code....72045









Main features

- Marine alluminim anodised body
- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Heavy duty rated IP66 electric motor

Construction	Anodised Aluminium		
Motor size	1000 W		
Power Supply (V)	12	24	
Maximum Linea Load (kg)	1250	1325	
Maximum Lift Load (kg)	625	665	
Lift working load (kg)	160 170		
Amps Work Load (A)	117 59		
Line Speed (m/min)	25	25	
Max Line Speed (m/min)	35 35		
Net Weight with Drum (kg)	21 21		
Control Box	Included in package		

KOBRA	000	Code	Code
	6 mm, ISO 4565 / DIN 766	600051	600513
With drum	8 mm, ISO 4565 / DIN 766	220260	600514
	10 mm, DIN 766	600052	471734
	10 mm, ISO 4565	428747	220420

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Maintenance Kit for KOBRA

Code....72048



Compatible Gypsies

Code	Gypsy Size		
630968	6 mm, ISO 4565 / DIN 766		
630978	7mm, ISO 4565		
630994	8 mm, ISO 4565 / DIN 766		
631118	10 mm, / DIN 766		
631011	10 mm, ISO 4565		
631120	3/8 BBB		
631122	3/8 PC		
631077	5/16 HT		









Construction	Anodised Aluminium			
Motor size	700 W	•	1000 W	
Power Supply (V)	12	12	24	
Maximum Linea Load (kg)	1050	1300	1375	
Maximum Lift Load (kg)	525	650	690	
Lift working load (kg)	135	165	175	
Amps Work Load (A)	110	117	59	
Line Speed (m/min)	25	25	25	
Max Line Speed (m/min)	30	35	35	
Net Weight with Drum (kg)	24	25	25	
Control Box	Included in package			

CAYMAN	000	Code	Code	Code
	6 mm, ISO 4565 / DIN 766	600043	*	*
With drum	8 mm, ISO 4565 / DIN 766	220273	220279	*
	10 mm, ISO 4565	*	419732	*
	10 mm, DIN 766	*	600165	600180

^{*}Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table below.





Code	Gypsy Size	
630968	6 mm, ISO 4565 / DIN 766	
630978	7 mm, ISO 4565	
630994	8 mm, ISO 4565 / DIN 766	
631118	10 mm, / DIN 766	
631011	10 mm, ISO 4565	
631120	3/8 BBB	
631122	3/8 PC	
631077	5/16 HT	

Please refer to accessories section for control and installation products (see pages 31-37)

Main features

- Marine alluminim anodised body
- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Heavy duty rated IP66 electric motor

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Maintenance Kit for CAYMAN Code....72048







Main features

- Marine alluminim anodised body
- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Heavy duty rated IP66 electric motor

Construction	Anodised A	Aluminium
Motor size	1500 W	
Power Supply (V)	12	24
Maximum Linea Load (kg)	1500	1590
Maximum Lift Load (kg)	750	795
Lift working load (kg)	190	200
Amps Work Load (A)	130	65
Line Speed (m/min)	20	20
Max Line Speed (m/min)	35	32
Net Weight with Drum (kg)	28	28
Control Box	Included in package	

TIGRES	000	Code	Code
	8 mm, ISO 4565 / DIN 766	418407	418409
With drum	10 mm, DIN 766	600055	600059
	10 mm, ISO 4565	470060	220290

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Maintenance Kit for TIGRES

Code....72050



Compatible Gypsies

-	
Code	Gypsy Size
630968	6 mm, ISO 4565 / DIN 766
630978	7mm, ISO 4565
630994	8 mm, ISO 4565 / DIN 766
631118	10 mm, / DIN 766
631011	10 mm, ISO 4565
631028	12mm, ISO 4565 / 13mm, DIN 766
631120	3/8 BBB
631122	3/8 PC
631077	5/16 HT









Construction	Anodised	Aluminium
Motor size	170	0 W
Power Supply (V)	12	24
Maximum Linea Load (kg)	1700	1800
Maximum Lift Load (kg)	850	900
Lift working load (kg)	215	225
Amps Work Load (A)	135	68
Line Speed (m/min)	16	16
Max Line Speed (m/min)	32	32
Net Weight with Drum (kg)	55	55
Control Box	Included i	n package

FALKON	000	Code	Code
	10 mm, DIN 766	600063	600067
With drum	10 mm, ISO 4565	220293	418511
	12mm ISO 4565 / 13mm DIN 766	404732	404733

Compatible Gypsies



Code	Gypsy Size		
630996	8 mm, ISO 4565 / DIN 766		
631132	10 mm, / DIN 766		
631022	10 mm, ISO 4565		
631031	12mm, ISO 4565 / 13mm, DIN 766		
631050	13mm, / DIN 764		
631059	14mm		
631033	1/2" BBB		
631036	1/2" G40		
631124	3/8" G40		
631129	5/16" HT		
630992	7/16" HT		

Main features

- Marine alluminim anodised body
- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Heavy duty rated IP66 electric motor

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Maintenance Kit for FALKON

Code....72051









Main features

- Marine alluminim anodised body
- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Heavy duty rated IP66 electric motor

Construction	Anodised Aluminium White Aluminium Anodised Alu		Anodised Aluminium	
Motor size	2300 W	3600 W	3600 W	Hydraulic - 9cc
Power Supply (V)	24	230	230	-
Maximum Linea Load (kg)	2700	3400	3400	3400
Maximum Lift Load (kg)	1500	1890	1890	1890
Lift working load (kg)	430	540	540	540
Amps Work Load (A)	140	-	-	-
Line Speed (m/min)	10	11	11	11
Max Line Speed (m/min)	16	11	11	11
Net Weight with Drum (kg)	115	115	115	95
Hydraulic Pressure (bar)	-	-	-	200
Hydraulic Flow (lt/min)	-	-	-	32
Control Box		Included in package		

Kits

Code	Description
418403	KIT A - Seals
418457	KIT B - Screws
418493	KIT C - Pins
418553	KIT D - Circlips

TITAN	000	Model	Code	Code	Code	Code
With drum	12 mm, ISO 4565 / 13mm, DIN 766	Туре А	404724	*	600846	602423
	14 mm, DIN 766		600072	600847	*	602424
	12 mm, ISO 4565 / 13mm, DIN 766	Туре В	428938	*	*	602468
	14 mm, DIN 766		426415	*	*	602469

*Non-standard configuration optional gypsies are supply separately. Please refer to compatible gypsies table below.

Compatible Gypsies



Code	Gypsy Size		
630996	8 mm, ISO 4565 / DIN 766		
631132	10 mm, / DIN 766		
631013	10 mm, ISO 4565		
631031	12mm, ISO 4565 / 13mm, DIN 766		
631059	14mm		

Code	Gypsy Size	
631033	1/2" BBB	
631036	1/2" G40	
631124	3/8" G40	







ERCOLE

Horizontal Windlasses



Construction	White Aluminium			
Motor size	3500 W	Hydraulic - 11cc		
Power Supply (V)	24	-		
Maximum Linea Load (kg)	4500	6500		
Maximum Lift Load (kg)	2500	3250		
Lift working load (kg)	810	1550		
Amps Work Load (A)	120	-		
Line Speed (m/min)	8	12		
Max Line Speed (m/min)	15	12		
Net Weight with Drum (kg)	200	180		
Hydraulic Pressure (bar)	-	200		
Hydraulic Flow (lt/min)	-	40		
Control Box	Included in package			

ERCOLE	000	Model	Code	Code
With drum	14 mm	Type A	403615	602509
		Type B	220317	602512
		Type C	403614	602515

Main features

- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Heavy duty rated IP44 electric motor

Kits

Code	Description
418423	KIT A - Seals
418472	KIT B - Screws
418494	KIT C - Pins
418555	KIT D - Circlips

Compatible Gypsies



Code	Gypsy Size		
631019	10mm, ISO 4565		
631039	12mm, ISO 4565 / 13mm, DIN 766		
631065	14mm		
631085	13mm.	/ DIN 764	
631082	16mm		
631088	16mm,	/ DIN 766	
631101	18mm		
631095	18mm,	/ DIN 766	
631113	20mm		

Code	Gypsy Size	
631068	14 STUD LINK	
631092	16 STUD LINK	
631098	17,5 STUD LINK	
631104	19 STUD LINK	
631110	20 STUD LINK	
631053	1/2" STUD LINK	
631056	13 ITALMET	





Horizontal Windlasses





Main features

- Available in white polyester coating
- Indepent Gypsy and drum operation
- Manual chain release
- Manual override
- Heavy duty rated IP44 electric motor

Construction		White Aluminium			
Motor size	3500 W	5500 W	Hydraulic - 11cc		
Power Supply (V)	24	400	-		
Maximum Linea Load (kg)	5000	7000	7000		
Maximum Lift Load (kg)	2780	3500	3500		
Lift working load (kg)	870	1670	1670		
Amps Work Load (A)	190	-	-		
Line Speed (m/min)	8	12	12		
Max Line Speed (m/min)	15	12	12		
Net Weight with Drum (kg)	235	235	215		
Hydraulic Pressure (bar)	-	-	200		
Hydraulic Flow (lt/min)	-	-	40		
Control Box		Included in package			

Kits

Code	Description
427806	KIT A - Seals
418476	KIT B - Screws
418500	KIT C - Pins
418575	KIT D - Circlips

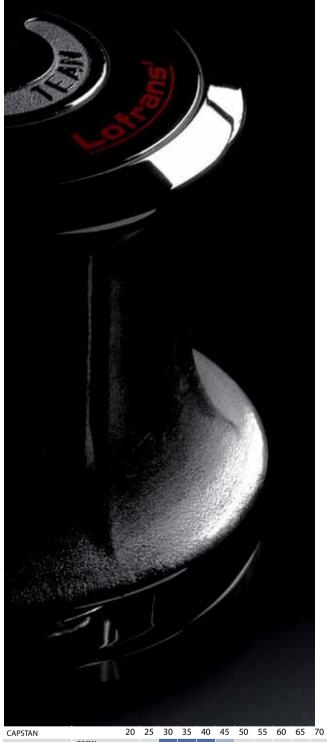
SUPER ERCOLE		Model	Code	Code	Code
\A/:411	10	Type A	404957	602501	602488
With drum	16 mm	Type B	426414	602504	602491

Compatible Gypsies



Code	Gypsy Size		
631019	10mm, ISO 4565		
631039	12mm, ISO 4565 / 13mm, DIN 766		
631065	14mm		
631085	13mm. / DIN 764		
631082	16mm		
631088	16mm, DIN 766		
631101	18mm		
631095	18mm, DIN 766		
631113	20mm		

Code	Gypsy Size
631068	14 STUD LINK
631092	16 STUD LINK
631098	18 STUD LINK
631104	19 STUD LINK
631110	20 STUD LINK
631053	1/2" STUD LINK
631056	13 ITALMET



CAPSTANS

The range of Lofrans capstans is designed for boats from 18 up to 150 feet. Capstans are normally installed on the stern of the boat for mooring operations and are used in recreational, fishing and commercial vessels.

They are normally installed on the vessel in addition to the anchor windlass, with the number of capstan units depending on the length and displacement of the vessel. They are controlled by a pair of the foot switches close to the capstan, so that the operator can have his/her hands free for rope handling.

The construction is very similar to our vertical windlass range using the same mechanical components, giving strength and high performance by relying on Lofrans'-made worm screw gearbox.

The base is manufactured using chromed bronze, strong and long lasting, as are the drums, which have the proper surface to hold the rope and minimize wear.

Models T3000 and T3500 have base and drum in mirror polished AISI 3 16L stainless steel and the main structure of the gearbox is of a strong single-block construction, same as our big vertical anchor windlasses for vessels of superior dimension.

Available to operate with 12V DC, 24V DC as well as AC or hydraulic motors for the larger size/higher power models, they are designed to meet a wide range of user requirements.



CAPSTAN		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
T500	500W																												
T700	700W																												
T1000	1000W																												
T1500	1500W																												
T1700	1700W																												
	2200W																												
T2000	2300W																												
	3600W																												
	9 CC																												
	2200W																												
	2500W																												
T2500	3000W																												
	3600W																												
	9 CC																												
	2200W																												
T3000	3600W																												
	11 CC																												
	3500W																												
	4000W																												
T4000	5500W																												
	11 CC																												





T500-T700-T1000-T1500-T1700

CAPSTANS

Main features

- Luxury chrome bronze base and drum
- Heavy duty rated IP66 electric motor
- Anodised marine aluminium gearbox





Construction		Chromed bronze										
Model	T500	T500 T700			000	T1:	500	T1700				
Motor size	500 W	70	700 W 1000 W		1500 W		1700 W					
Power Supply (V)	12	12	24	12	24	12	24	12	24			
Maximum Linea Load (kg)	670	850	900	1000	1060	1200	1270	1600	1695			
Maximum Lift Load (kg)	335	460	490	500	530	600	635	800	850			
Lift working load (kg)	85	115	125	150	160	165	165	200	215			
Amps Work Load (A)	60	110	55	117	59	130	65	135	68			
Line Speed (m/min)	20	25	25	25	25	20	20	16	16			
Max Line Speed (m/min)	25	30	30	35	35	35	35	32	32			
Net Weight with Drum (kg)	11	15	15	21	21	27	27	30	30			
Control Box				Inc	uded in package	9						

Code	409130	220006	418159	417946	187324	220014	418161	472407	187326
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Construction	Aluminium									
Model	T500	T7	00	T10	000	T1:	500	T1700		
Motor size	500 W	700	700 W		1000 W		0 W	1700 W		
Power Supply (V)	12	12	24	12	24	12	24	12	24	
Maximum Linea Load (kg)	670	850	900	1000	1060	1200	1270	1600	1695	
Maximum Lift Load (kg)	335	460	490	500	530	600	635	800	850	
Lift working load (kg)	85	115	125	150	160	165	165	200	215	
Amps Work Load (A)	60	88	55	108	54	115	58	140	70	
Line Speed (m/min)	23	19	25	17	17	16	16	15	15	
Max Line Speed (m/min)	26	25	30	23	23	28	28	30	30	
Net Weight with Drum (kg)	9	15	15	16	16	18	18	25	25	

Code 409563 411129 600779 409564 409567 600058 600062 600066 600069

KIT A - S	KIT A - SEALS							
Code	For CAPSTANS							
418410	T500							
418411	T700 - T1000							
418422	T1500 - T1700							

KII B - SCHEWS							
Code	For CAPSTANS						
418446	T500						
418448	T700 - T1000						
418450	T1500 - T1700						

VIT D CCDEIMS

Code	For CAPSTANS
418483	T500
418486	T700 - T1000
418487	T1500 - T1700

KIT C - PINS

Code	For CAPSTANS					
418512	T500					
418513	T700 - T1000					
418514	T1500 - T1700					

KIT D - CIRCLIPS



Main features

- Luxury chrome bronze base and drum
- Heavy duty rated IP44 electric motor
- Anodised marine aluminium gearbox

Construction		Chromed bronze								
Model			T2000							
Motor size	2200 W	2200 W 2300 W								
Type**	cw	cw	ccw	cw						
Power Supply (V)	400	24	24	-						
Maximum Linea Load (kg)	2200	2000	2000	2500						
Maximum Lift Load (kg)	1100	1000	1000	1250						
Lift working load (kg)	595	545	545	680						
Amps Work Load (A)	-	70	70	-						
Line Speed (m/min)	16	12	12	16						
Max Line Speed (m/min)	16	27	27	16						
Net Weight with Drum (kg)	52	52	52	40						
Hydraulic Pressure (bar)	-	-	-	200						
Hydraulic Flow (lt/min)	-	-	-	32						
Control Box		Included in package								
Code	600071	404967	600729	602140						

Construction		Chromed bronze T2500								
Model										
Motor size	2200 W	2700 W	Hydraulic - 9cc							
Туре	cw	cw	cw							
Power Supply (V)	400	24	-							
Maximum Linea Load (kg)	2200	2400	2500							
Maximum Lift Load (kg)	1100	1200	1250							
Lift working load (kg)	595	650	680							
Amps Work Load (A)	-	190	-							
Line Speed (m/min)	16	12	16							
Max Line Speed (m/min)	16	27	16							
Net Weight with Drum (kg)	52	53	40							
Hydraulic Pressure (bar)	-	-	200							
Hydraulic Flow (lt/min)	-	-	32							
Control Box	Included in package									
Code	600070	476239	602168							

Kits

Code	Description
418399	KIT A - Seals
418451	KIT B - Screws
418488	KIT C - Pins
418515	KIT D - Circlips

^{* *} cw: the capstan pulls clockwise ccw: the capstan pulls counter clockwise





T3000 - T4000

CAPSTANS

Main features

- Luxury stainless steel base and drum
- Heavy duty rated IP44 electric motor
- Anodised marine aluminium gearbox





Construction	316 L Stainless Steel				
Model	T3000				
Motor size	2200 W	3600 W	Hydraulic - 9cc		
Power Supply (V)	400	400	-		
Maximum Linea Load (kg)	3000	3500	2500		
Maximum Lift Load (kg)	1500	175	1250		
Lift working load (kg)	815	950	680		
Amps Work Load (A)	-	-	-		
Line Speed (m/min)	18	18	16		
Max Line Speed (m/min)	18	18	16		
Net Weight with Drum (kg)	75	75	40		
Hydraulic Pressure (bar)	-	-	200		
Hydraulic Flow (lt/min)	-	-	32		
Control Box	Included in package				

Code	600767	602196	602189

Construction	316 L Stainless Steel			
Model	T4000			
Motor size	3500 W 5000 W			
Power Supply (V)	24	400		
Maximum Linea Load (kg)	5500 6500			
Maximum Lift Load (kg)	2750 3250			
Lift working load (kg)	690 1550			
Amps Work Load (A)	200 -			
Line Speed (m/min)	8 12			
Max Line Speed (m/min)	15 12			
Net Weight with Drum (kg)	120 140			
Control Box	Included in package			

	Code	600077	423284
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Circuit Breaker

		12V	24V
	500 W	187331	-
X1	700 W	187332	187331
	700 W	187332	187331
X2	1000 W	187333	187332
	1500 W	187333	187332
	1500 W	187333	187332
X3	1700 W	187334	187332
	1700 W	187334	187332
X3.5	2300 W		187333
	2700 W		•
	2300 W		187333
X4	2700 W		
X5	3000 W	_	-
PROJECT 1000	1000 W	187333	187332
PROJECT 1500	1500 W	187333	187332
PROJECT 2000	2000 W		187333
ERCOLE VERTICAL	3500 W		-
DORADO	500 W	187331	
BOITE	700 W	187332	187331
ATLAS	600 W	600029	-
KOBRA	700 W	187332	187331
NODI V	1000 W	187333	187332
CAYMAN	700 W	187332	187331
<i>5,</i> (1 m) u (1000 W	187333	187332
TIGRES	1500 W	187333	187332
FALKON	1700 W	187334	187332
TITAN	2300 W		187333
111744	2700 W		-
ERCOLE	3500 W		-
SUPER ERCOLE	3500 W		
CAPSTAN T500	500 W	187331	-
CAPSTAN T700	700 W	187332	187331
CAPSTAN T1000	1000 W	187333	187332
CAPSTAN T1500	1500 W	187333	187332
CAPSTAN T2000	2000 W	- 107333	187333
CAPSTAN T2500	2500 W	_	-
CAPSTAN T3000	3600W		
CAPSTAN T4000	4000W		
UAFSTAN 14000	400000	-	-

ELECTRIC ACCESSORIES

The range of accessories consists of a large selection of productsto control windlass operations. All products are designed and built to guarantee perfect and reliable operation in the marine environment. Lofrans' Accessories are manufactured to the highest quality for reliability and safety, conforming to EC regulations covering electromagnetic compatibility (89/336/CEE). They are tested by official organizations for compliance to regulations and CE marked.

For a windlass to function properly you will need to install:

- The control box unit which is supplied as standard, is made up of two solenoids included in a watertight box with an IP56 rating. Connecting the remote control to the control box is easily done by simply plugging the wiring onto the control box
- The circuit breaker, which has three functions:
- Protection from short circuit
- Protection of the electric motor from current overload
- Voltage interruption when the anchor windlass needs to be switched off. The circuit breaker is installed on a panel and has an LED indicator.
- One or more electric controls which can be connected in parallel.













Panel Chaincounter IRIS

This fly bridge chain counter IRIS is technologically advanced instrument with an elegant and ergonomic design makes it suitable for all type of boat cockpits. As GALAXY 503, IRIS is supplied with an evolved microprocessor, with different operations allowing an optimum anchoring.

- High vision LCD display
- Five languages menu
- Inversion polarity protection
- Switch On button
- Automatic release function
- Up allarm
- Speed
- Ampere drawing
- Released chain
- Voltage display
- Backled on eight level
- Eight level of contrast
- Sensor detection function
- Parallel connection

Radio Control Chaincounter GALAXY 703

Without cable ties, plug or panels and with load always perfect by rechargeable battery, the radio chain counter GALAXY 703 gives finally all the freedom of manoeuvres and the comfort of reading in the anchoring operations.

- High vision LCD display
- Five languages menu
- Inversion polarity protection
- Switch On button
- Automatic release function
- Up allarm
- Speed
- Ampere drawing
- Released chain
- Voltage display
- Backled on eight level
- Eight level of contrast
- Sensor detection function
- Parallel connection

Code	600017	
Command transmission	Wire	
Number of button	3	
Voltage	10-30Vdc	
Operative temperature	-10 : +60	
IP protection rated	67	
Max contacts amperage (A)	5	
Weight (gr)	250	
Dimension (mm)	110x105x15 (5 flat version)	

Code	600016
Command transmission	Remote
Number of button	3
Voltage	10-30Vdc
Operative temperature	-10 : +60
IP protection rated	67
Max contacts amperage (A)	5
Weight (gr)	120
Dimension (mm)	155x65x45



GALAXY 503

CHAIN COUNTER







Hand Held Remote Control Chaincounter GALAXY 503

This new remote chain counter model GALAXY 503 has been specifically designed to give the full control in anchoring. It's a reliable and practical instrument, technologically advanced, specifically design for use in marine environments. The external casing, completely waterproof, gives the maximum freedom on board during anchoring manoeuvring, by to a soft rubber cover. Provided with an evolved microprocessor that offers a series of advantages for full control of the anchoring.

- High vision LCD display
- Five languages menu
- Inversion polarity protection
- Switch On button
- Automatic release function
- Up allarm
- Speed
- Ampere drawing
- Released chain
- Voltage display
- Backled on eight level
- Eight level of contrast
- Sensor detection function
- Parallel connection

Hand Held Control GALAXY 102

This new hand held remote control model GALAXY 102 has an elegant and functional design. The soft rubber case, which covers sideways the remote control, allows a safe and handy taking under any condition.

This hand held remote control is completely waterproof and supplied with waterproof plug and socket rated IP68. The extending flexible cable (approximately 4 metres) gives the maximum freedom on board during anchoring manoeuvring. In addition to the standard version with two buttons (up and down), there is available another version with three buttons, the third being useful to operate a wash down pump for the chain.

- Inversion polarity protection
- Parallel connection

Code	600015
Command transmission	Wire
Number of button	3
Voltage	10-30Vdc
Operative temperature	-10 : +60
IP protection rated	67
Max contacts amperage (A)	5
Weight (gr)	450
Dimension (mm)	155x65x45

Code	600013
Command transmission	Wire
Number of button	3
Voltage	10-30Vdc
Operative temperature	-10 : +60
IP protection rated	67
Max contacts amperage (A)	5
Weight (gr)	380
Dimension (mm)	155x65x45





GALAXY 303

RADIO CONTROL



Radio Remote Control







Radio Control GALAXY 303

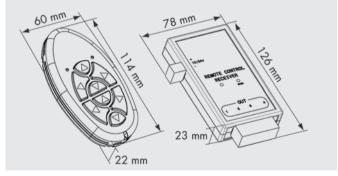
This radio control has been researched specifically for use in sea environments. This allows the widest freedom of movement when operating the anchor windlass on board the vessel. The electronic reception card is suitably protected by a special tin container (receiver). To prevent it being accidentally set in motion, it has a power key which must be pressed for 3 seconds before operating. Every Radio-control has its own reading code, different from any other unit, so that interferences with other radio controls are impossible. Capacity is 20-30 mt. Codified transmission and modulation of amplitude, on European frequency of 433,9 Mhz.

- Inversion polarity protection
- Switch On button
- Automatic release function
- Parallel connection

Lofrans' radio remote control is designed to work with our range of windlasses.

The remote control can also be used to operate other onboard equipment such as thrusters, passerelles, cranes, etc.

- \bullet Supports up to 8 independently controlled channels
- Each receiver can switch 4 channels (12/24 V 5 A)
- Each transmitter can handle 2 receivers (8 channels)
- Digital recognition avoids accidental activation of other system
- Zero power consumption when in standby mode (transmitter)
- Easy to install and set up, simple to use



Code	600014	Code		312976	312977
Command transmission	Remote	Descri	ption	Transmitter & Receiver (EU)	Transmitter & Receiver (USA
Number of button	3	Freque	ency	868 MHz	915 MHz
Voltage	10-30Vdc				

Number of button	3
Voltage	10-30Vdc
Operative temperature	-10 : +60
IP protection rated	67
Max contacts amperage (A)	5
Weight (gr)	150
Dimension (mm)	155x65x45





Foot switch

Easy to install this device is a switch which works simply pushing the foot on the button. The base is in stainless steel while the cover to prevent accidental engagement is in composite. The button is in special marine rubber able to withstand UV ray and the marine environment. Availble in UP and DOWN version

Code	600012 600011 602121		
Description	Red / Grey UP	Black / Grey DOWN	Blue / WASH DOWN
Voltage	10-30Vdc		
Operative temperature	-10:+60		
IP protection rated	67		
Max contacts amperage (A)	5		
Weight (gr)	100		
Dimension (mm)	80x95x20		





Control Switch

TYPE "L"

This switch, usually installed on the cockpit, is made by a fixing plaque and by a three position switch (Up-Off-Down).

Code	404728
------	--------





TYPE "C"

This rocker switch has a modern and practical design. It is reliable and watertight and it is supplied with the apposite case to make simple and sure the installation.



Circuit Breaker

The thermal circuit breaker is an essential component of the electric plant. It has three functions: $\frac{1}{2}$

- \bullet protects from very dangerous short circuits
- protects the electric motor of the windlass
- interrupts tension to windlass when desired

In case of short circuit the intervention is immediate. Concerning the electric motor a specific intervention curve has been studied in cooperation with E-T-A Germany. It is possible to re-activate the circuit breaker at the end of the intervention. The thermal circuit breaker is supplied with an elegant plaque for fixing and a led light. This unit is in compliance with EEC regulations and homologated by Bureau, Veritas.





	35 A	40 A	70 A	80 A	100 A	125 A
Thermal	187331	-	187332	-	187333	187334
Hydraulic	-	600029	-	630616	600028	-





Control Box

The Control Box is an electric unit made up of two remote control switches enclosed inside a special container which protects it from marine corrosion. The entire unit has been designed with a view to simplifying and speeding up the various electrical connections. For this purpose there is no need to open and/or pierce the container, as all the terminals and the panel for the electrical connections are perfectly accessible from the outside. Outer construction in self-extinguishing polyester resin, resistant to shock and marine corrosion. Degree of protection IP 56 - protection against deckwater.



Code	600018	600019	600020	602590	600021	600022	602587
Number of terminals	3	3	3	4	4	4	4
Power	12 V	24 V	24 V	12 V	12 V	24 V	24 V
Motor Size	500-1700 W	500-1700 W	1700-2300 W	500-700 W	1000-1700 W	500-1700 W	3500 W





Kit for big Models & Capstans

KIT A - SEALS

For WINDLASS
X4 & PROJECT 2000
ERCOLE VERTICAL
TITAN
ERCOLE
SUPER ERCOLE
T500
T700 - T1000
T1500 - T1700
T2000 - T2500

KIT B - SCREWS

Code	For WINDLASS
474012	X4 & PROJECT 2000
418475	ERCOLE VERTICAL
418457	TITAN
418472	ERCOLE
418476	SUPER ERCOLE
418446	T500
418448	T700 - T1000
418450	T1500 - T1700
418451	T2000 - T2500

KIT C - PINS

Code For WINDLASS 474011 X4 & PROJECT 2000 418499 ERCOLE VERTICAL 418493 TITAN 418494 ERCOLE
418499 ERCOLE VERTICAL 418493 TITAN 418494 ERCOLE
418493 TITAN 418494 ERCOLE
418494 ERCOLE
440500
418500 SUPER ERCOLE
418483 T500
418486 T700 - T1000
418487 T1500 - T1700
418488 T2000 - T2500

KIT D - CIRCLIPS

KII D - CIRCLIPS		
Code	For WINDLASS	
474010	X4 & PROJECT 2000	
418556	ERCOLE VERTICAL	
418553	TITAN	
418555	ERCOLE	
418575	SUPER ERCOLE	
418512	T500	
418513	T700 - T1000	
418514	T1500 - T1700	
418515	T2000 - T2500	

KIT F - FINGERS

Code	For WINDLASS
474023	X1, X2 & PROJECT 1000
474017	X3 & PROJECT 1500
632119	DORADO
632116	ATLAS

KIT S - MAGNETIC SENSORS

Code	For WINDLASS
474053	X1, X2 & X3
600033	X4
474048	for all horizontal windlasses



Maintenance Kit

Code	For WINDLASS
72036	X0
72037	X1
72038	X2 & PROJECT 1000
72039	X2 ALU
72040	X3, X3 ALU & PROJECT 1500
72046	ROYAL

For WINDLASS
DORADO
KOBRA & CAYMAN
TIGRES
FALKON
ATLAS









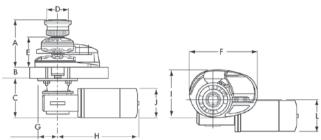


Code		Chain Size	For windlass
630953	`	STIGHT GIZO	X2 / PROJECT 1000
630968	1		KOBRA / CAYMAN / TIGRES / ROYAL
630970	6 mm 1	SO 4565 / DIN 766	X0 / X1 / X1 ALU
630974		00 40007 211 700	DORADO
631005	-		ATLAS
630978			KOBRA / CAYMAN / TIGRES / ROYAL
630980			X1/X1ALU
630984	− <i>7mm</i> is	SO 4565	DORADO
631007			ATLAS
630949			X2 / PROJECT 1000
630957			X3 / PROJECT 1500
630994			KOBRA / CAYMAN / TIGRES / ROYAL
630996	8mm 19	SO 4565 / DIN 766	FALKON / TITAN / PROJECT 2000 / X4 / X3.5
630999			X1
631003			DORADO
631009			ATLAS
630951	4		X2 / PROJECT 1000
630959			X3 / PROJECT 1500
631011	10mm	ISO 4565	KOBRA / CAYMAN / TIGRES / ROYAL
631013	-		FALKON / TITAN
631019	4		ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631022 630955			FALKON / TITAN / PROJECT 2000 / X4 / X3.5 X2 / PROJECT 1000
630966	_		X2 / PROJECT 1000 X3 / PROJECT 1500
631132	10mm	DIN766	FALKON / TITAN / PROJECT 2000 / X4 / X3.5
631118			KOBRA / CAYMAN / TIGRES / ROYAL
630961			X3 / PROJECT 1500
631028	12mm	ISO 4565	TIGRES
631039	13mm	DIN 766	ERCOLE (Horizontal & Vertical) / X5
631031			FALKON / TITAN / PROJECT 2000 / X4 / X3.5
631050	12	DIN 704	FALKON
631085	- 13mm	DIN 764	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE / X5
631065	14mm		ERCOLE (Horizontal & Vertical) / SUPER ERCOLE / X5
631059	14111111		FALKON / TITAN / PROJECT 2000 / X4 / X3.5
631088	16mm	DIN766	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631082	16mm		ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631095	18mm	DIN766	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631101	18mm		ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631113	20mm	DDD	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631033 631120	3/8"	BBB BBB	FALKON / TITAN / PROJECT 2000 / X4 / X3.5 KOBRA/CAYMAN/TIGRES/ROYAL
631036	1/2"	G40	FALKON / TITAN / PROJECT 2000 / X4 / X3.5
631124	3/8"	G40	FALKON / TITAN
631077			KOBRA/CAYMAN/TIGRES/ROYAL
631129	5/16"	HT	FALKON
630992	7/16"	HT	FALKON
631122	3/8"	PC	KOBRA/CAYMAN/TIGRES/ROYAL
631056	13	ITALMET	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631062	14	PITCH 42mm	TITAN
630989	14,5	UNI4417	ERCOLE VERTICAL
631053	1/2"	STUDLINK	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631068	14	STUDLINK	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631092	16	STUDLINK	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631098	17,5	STUDLINK	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631104	19	STUDLINK	ERCOLE (Horizontal & Vertical) / SUPER ERCOLE
631110	20	STUDLINK	ERCOLE (Horizontal) / SUPER ERCOLE

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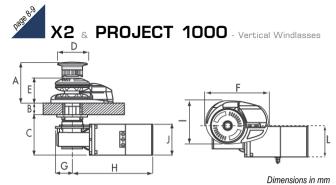






Dimensions in mm

Model	Α	В	С	D	Е	F	G	Н	-1	J	L
500W	130	10-30	111	Ø 60	84	183	55	225	127	Ø 82	85
700W	130	10-30	111	Ø 60	84	183	55	229	127	Ø 95	92
1000W	130	10-30	150	Ø 60	84	183	62	250	127	Ø 114	138

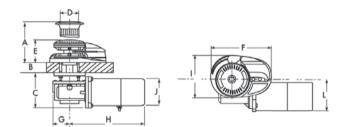


1	I	J	L	
4.4	160	0.04	120	

Model	Α	В	С	D	Е	F	G	Н	I	J	L
X2 700W	153	25-40	150	Ø 76	94	232	62	244	162	Ø 94	120
X2 1000W	153	25-40	150	Ø 76	94	232	62	250	162	Ø114	138
X2 1500W	153	25-40	150	Ø 76	94	232	62	260	162	Ø114	138
PROJECT 1000W	153	25-40	150	Ø 76	94	232	62	244	162	Ø 94	120



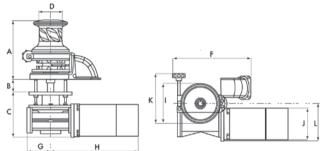
X3 & PROJECT 1500 - Vertical Windlasses



Dimensions in mm

Model	Α	В	С	D	Е	F	G	Н	1	J	L
X3 1500W	195	50-70	165	Ø 92	110	270	80	270	192	Ø 114	135
X3 1700W	195	50-70	165	Ø 92	110	270	80	300	192	Ø 126	135
PROJECT 1500W	195	25-50	165	Ø 92	110	270	80	365	192	Ø 126	140



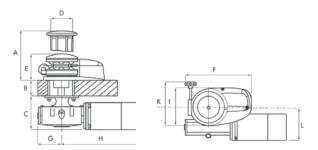


Dimensions in mm

Model	Α	В	С	D	F	G	Н	- 1	J	K	Г
1700W	281	40-110	165	Ø 110	374	79	294	Ø 190	Ø 127	236	138
2300W	281	40-60	165	Ø 110	374	111	416	Ø 190	Ø 150	236	176
2700W	281	40-60	165	Ø 110	374	111	416	Ø 190	Ø 150	236	176



X4 & PROJECT 2000 - Vertical Windlasses

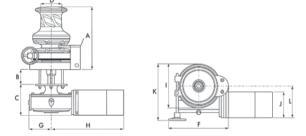


Dimensions in mm

Model	Α	В	С	D	Е	F	G	Н	1	J	K	L
X4 2300W	285	60-130	200	Ø 125	150	380	140	445	220	Ø 127	240	190
X4 2700W	285	60-130	200	Ø 125	150	380	140	445	220	Ø 127	240	190
PROJECT 2000W	285	60-130	200	Ø 125	150	380	140	480	220	Ø 152	240	190



X5 - Vertical Windlasses



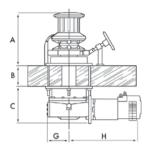
Dimensions in mm

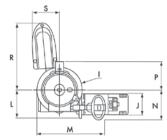
Model	Α	В	С	D	F	G	Н	ı	J	K	L
3000W	385	60-90	200	Ø 132	332	140	445	264	Ø 152	339	190





ERCOLE VERTICAL - Vertical Windlasses

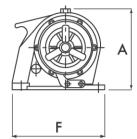


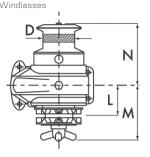


Dimensions in mm

Model	Α	В	С	D	G	Н	1	J	L	М	N	Р	R	S
3500W														
4000W	392	150	270	150	160	502	330	Ø 158	205	495	220	205	min 490 - max 600	min 200 - max 230
5500W														





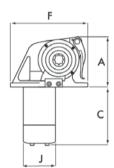


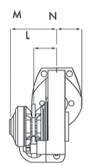
Dimensions in mm

Model	Α	D	F	L	М	N
Manual	192	Ø 85	222	80	145	167



DORADO - Horizontal Windlasses



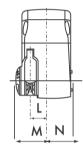


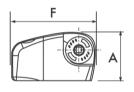
Dimensions in mm

Model	Α	С	F	J	L	М	N
500W	130	150	200	Ø 82	48	98	53
700W	130	150	200	Ø 94	48	98	53



ATLAS - Horizontal Windlasses



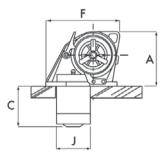


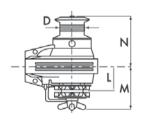
Dimensions in mm

Model	Α	D	F	L	М	N
600 W	192	Ø 85	222	80	145	167



KOBRA - Horizontal Windlasses



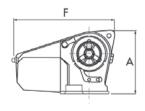


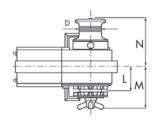
Dimensions in mm

Model	Α	С	F	D	J	L	М	N
1000W	184	136	222	Ø 85	Ø 114	83	147	172



CAYMAN - Horizontal Windlasses





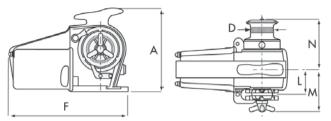
Dimensions in mm

Model	Α	D	F	L	М	N
7000 W	230	Ø 85	370	85	150	175
1000 W	230	Ø 85	370	85	150	175





TIGRES - Horizontal Windlasses

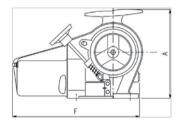


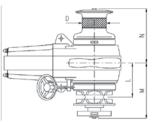
Dimensions in mm

Dimensions in mm

Model	Α	D	F	L	М	N
1500W	290	Ø 85	415	90	155	185





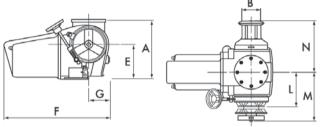


Dimensions in mm

Model	Α	D	F	L	M	N
17000 W	345	Ø 104	510	147	240	235



TITAN & ERCOLE - Horizontal Windlasses



TYPE A

TITAN	Α	В	Е	F	G	L	М	N
2300W								
3600W	330	104	193	590	120	185	270	290
Hydraulic	1							

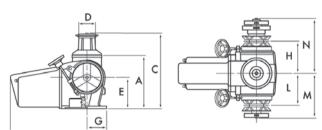
ERCOLE	Α	D	Е	F	G	L	М	N
3500W	385	Ø150	230	690	158	230-250	390	340
Hydraulic	303	וטפוש	230	090	100	230-230	390	340

SUPER ERCOLE	А	D	Е	F	G	L	М	N
3500W								
5500W	450	Ø150	260	870	200	255-280	450	375
Hydraulic								



TITAN ERCOLE & SUPER ERCOLE

- Horizontal Windlasses



TYPE B

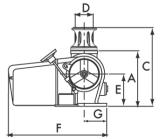
Model	Α	С	D	Е	F	G	Н	L	М	N
2300W										
3600W	330	465	Ø104	193	590	120	185	185	270	330
Hydraulic										

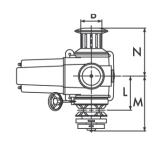
ERCOLE	Α	С	D	E	F	G	Н	L	М	N
3500W	390	555	Ø125	230	690	158	230-	230-	370	410
Hydraulic	390	555	W125	230	090	130	250	250	370	410

SUPER ERCOLE	Α	С	D	Е	F	G	Н	L	М	N
3500W										
5500W	450	610	Ø150	260	870	200	255- 270	255- 280	450	375
Hydraulic										



ERCOLE - Horizontal Windlasses





TYPE C

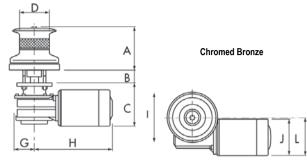
Dimensions in mm

Model	Α	В	С	D	F	F	G	Н	1	М	N
			<u> </u>		_	i i	<u> </u>	- ''	_		
3500W	390	Ø150	555	Ø125	230	690	158	230-	230-	390	340
Hydraulic	000	2100	000	0120	200	000	100	250	250	000	040





T500-T700-T1000 - Capstans

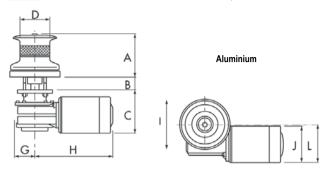


Dimensions in mm

Model	Α	В	С	D	G	Н	I	J	L
T500	95	18-30	110	Ø 60	45	225	Ø 115	Ø 82	85
T700	140	20-40	140	Ø 92	65	240	Ø 155	Ø 94	120
T1000	140	20-40	140	Ø 92	65	242	Ø 155	Ø 114	120



T500-T700-T1000 - Capstans

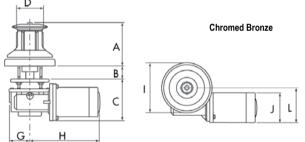


Dimensions in mm

Model	Α	В	С	D	G	Н	I	J	L
T500	90	18-30	110	Ø 60	64	211	Ø 115	Ø 82	82
T700	131	25-40	149	Ø 92	68	238	Ø 155	Ø 94	112
T1000	131	25-40	149	Ø 92	68	235	Ø 155	Ø 114	117



T1500-T1700 - Capstans

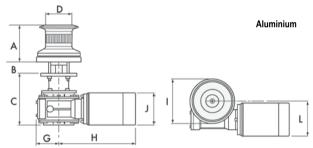


Dimensions in mm

Model	Α	В	С	D	G	Н	1	J	L
T1500	168	50-70	165	Ø 104	80	270	Ø 195	Ø 114	134
T1700	168	50-70	165	Ø 104	80	300	Ø 195	Ø 126	134



T1500-T1700 - Capstans

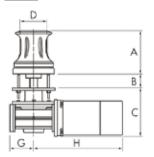


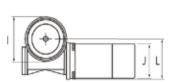
Dimensions in mm

Model	Α	В	С	D	G	Н	I	J	L
T1500	131	25-40	183	92	79	267	Ø 155	Ø 114	121
T1700	156	50-70	180	Ø 114	95	310	Ø 194	Ø 126	161



T2000-T2500 - Capstans



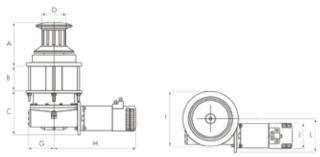


Dimensions in mm

Model	Α	В	С	D	G	Н	I	J	L
T2000	190	60-90	212	Ø 125	111	420	Ø 194	Ø 152	176
T2500	190	90-130	212	Ø 125	111	420	Ø 230	Ø 152	176



T3000-T4000 - Capstans



Dimensions in mm

Model	Α	В	С	D	G	Н	I	J	L
T3000	250	60-90	132	Ø 132	140	430	Ø 264	Ø 175	215
T4000	267	150	270	Ø 150	159	502	Ø 338	Ø 158	205



INTEGRATED HYDRAULIC SYSTEMS



As of 2013, a strong partnership has been built among Lofrans' and Max Power thrusters creating a synergy in yacht control and maneuvering solutions.

As a natural evolution from simple stand-alone independent units, Max Power is able to offer fully integrated hydraulic systems for sailing yachts. Whether running winches, windlasses, bow thrusters, stern thrusters, hydraulic davits or complex keel lifting mechanisms, our complete hydraulic solutions are used by many of the world's large sailing yacht manufacturers. Unique in theirflexibility, Our systems are built using a common central line principle.

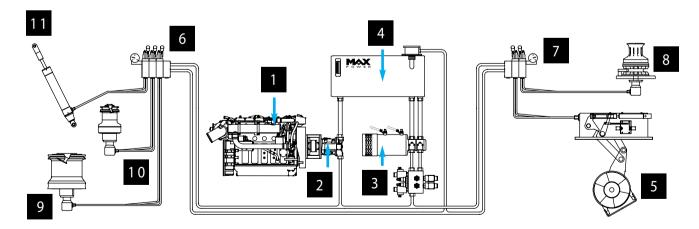


This means any function can be run from any power source thereby allowing a high level of user control. The use of load sensing pumps and valves ensures efficient and silent operation over a wide range of hydraulic flows and pressures. Our experience in designing and supplying complete solutions ensures that a Max Power-Lofrans' integrated system will be efficient, flexible and reliable.

Sailing yacht power systems typically include one or several generator mounted hydraulic pumps and in addition will require a DC power pack for silent sailing and light maneuvering. The PowerValveTM power pack range used in our systems, offers exceptional flexibility and power efficiency over a wide range of hydraulic flows.

Available as single or twin motor units, each motor pump can deliver 3 flow ratings at two predetermined system pressures, thereby accommodating a wide variety of hydraulic functions.

From high pressure, low flow keel, to a powerful high flow windlass, each function only draws the amperage needed for that specific application.



- 1 Generator with PTO
- 2 Variable displacement pump
- 3 DC power pack
- 4 Oil tank with filtration and gages
- 5 Thruster
- 6 Control Valve

- 7 Control Valve
- 8 Windlass
- 9 Winch
- 10 Winch
- 11 Hydraulic ram



CUSTOMIZED SOLUTIONS



As part of the Lofrans' ability and capacity to deliver products for a wide range of vessels, the high end Mega Yacht demand for anchoring solutions could not be left unsupported.

Each yacht is considered as unique, as is the choice of anchoring equipment made by boat builders and naval architects around the world.

These products are almost always tailored to suit the individual requirements of yacht owners and operators, they are given special attention in all stages of their definition, design, manufacture, installation and commissioning.

A specific team of people, led by our Technical Manager, Mr. Luca Rivolta, focus on specific projects such as these, to be able propose products to yacht builders products that exceed their needs in reliability, safety, look and engineering excellence.

In Lofrans', this has been our goal since 1966.



www.lofrans.com



SELECTING THE WINDLASS

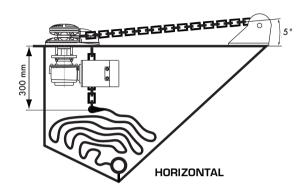
VERTICAL OR HORIZONTAL?

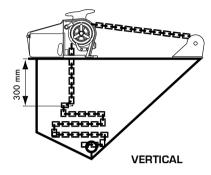
The space available over and under the deck is the main aspect to be considered when to select the vertical or horizontal windlass.

Vertical windlasses have the rotation vertical than the deck and they allow to have a reduced space on deck while the electric motor and the gearbox stands in the chain locker.

Horizontal windlasses are installed on deck and they have the rotation horizontal than the deck. They are suggested for boat where the chain locker is at the minimum. The electric motor and the gearbox are protected by a cover and they are easily accessible for maintenance.

To help the drop of the chain in the chain locker and get a better performance of your windlass the distance between the top of the heaped chain and the underdeck must be at least 300 mm.





DC, AC OR HYDRAULIC?

We are able to supply the windlass in three different motorization: direct current, alternate current and hydraulic.

- D.C. motorization is the most popular for reliability. The maintenance is very limited and this kind of electric motors are used for boats up to 90 feet length
- A.C. motorization is the choice for boats from 90 up to 120 feet length which have generators on board. A.C. motors offer a good torque, they need a simple installation and limited maintenance.
- Hydraulic motorisation gives the advantage of supply a constant

torque while the load changes. They are very popular on boats of over 120 feet length. They need a specific installation.

MAX PULL AND WORKING LOAD

Max pull is the maximum pull that the windlass is able to supply for few seconds.

Max Working Load is the maximum lift that the windlass is able to supply. It comes from the max pull which is decreased in considering the lost of efficiency due to the whole system.

Working Load is a load which simulate an average condition of the applied load. This load is the reference for ampere drawing and the speed data indicated in the catalogue.

PROPER WINDLASS SELECTION

The steps to select a vertical of horizontal windlass are :

- Select the proper model checking the chart windlass model length of the boat.
- · Calculate the ground tackle which is made by anchor weight, total chain and rope weight on board.
- Compare the ground tackle to the Max Working Load decreased of the 25% for safety reason. The Max Working Load decreased of 25% must be superior to the ground tackle.

Eg sample on a boat of 42 feet

	Calculation of the round tackle (anchor + rope + total chain)								
eg	Anchor	Chain 10 - 75mt - weight 2,2 kg/mt	Rope 25m/75ft	Ground tackle					
	66lbs	+363lbs	+ 1 1lbs	+440lbs					

2. C	Comparison of the Max Working Load decreased of 25% eg Project X2 1000W 12V model = Max WL 400 Kg								
eg	Anchor	Chain 10 - 75mt - weight 2,2 kg/mt	Rope 25m/75ft	Ground tackle					
	66lbs	+363lbs	+ 1 1lbs	+440lbs					

CIRCUIT BREAKER

The circuit breaker protects the electric motor and the cables of the windlass from overload of current. It is installed on the power line and it trips automatically when the current is over the rated following a specific time/ current curve. It is essential install this device for safety reason.

Our circuit breaker once tripped can be engaged again.

Choosing the proper circuit breaker is very important. You have to select the delayed time/current curve as the anchor windlass change the ampere drawing following the variable load.

Lofrans do not recognise the warranty in case of non installation of the proper circuit breaker.



SAFETY

The windlass is designed to lift the ground tackle but it is not designed to take the load of the whole boat. For this reason we strongly recommend to use a chain stopper in order to spread the load and avoid to damage for overload the structural components of the windlass.

MANUAL OVERRIDE

Most of the Lofrans windlasses is supplied with the manual ovveride which makes the windlass able to recovery the chain in case of failure of the electrics.

The manual override is inserted inside the gearbox and it is made by spring load ratchet which has the secondary function to make a sort of mechanical fuse in order to prevent that chain jams in the chain locker could damage the deck.

CLUTCH

In the Lofrans anchor windlasses the main shaft and the gipsy are connected by a couple of conical disc called clutch. They are normally engaged by screwing the top star shaped nut. To engage or disengage the clutch you have to insert the supplied handle in this nut.

Disengaging the clutch, the gipsy is free and the weight of the anchor release the chain into the water.

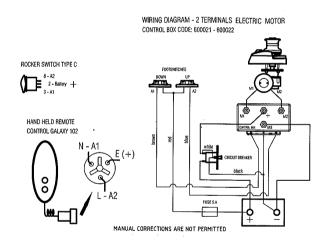
AUTOMATIC FREE FALL

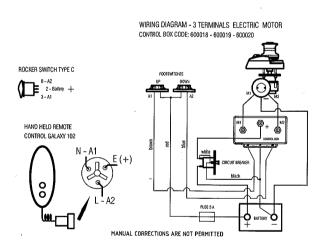
Some horizontal anchor windlasses install as option a device named AUTOMATIC FREE FALL. This device allows to disengage the clutch automatically simply by pushing the button DOWN of the remotes.

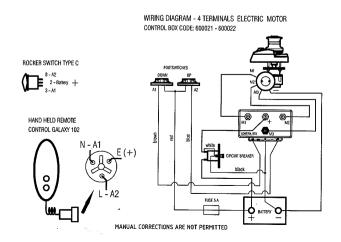
ROPE AND CHAIN MANAGEMENT

Most of the Lofrans anchor windlass are able to manage rope and chain by a special spring load tension arm called finger which pushes the rope deeply inside the gipsy teeth.

Wiring diagrams dependings on configuration and number of terminals

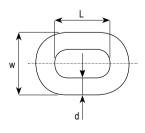






CHAINS SECTION

CHAIN d	Inside Length L (mm)	Outside Width w (mm)
6 ISO	18	20
7 ISO	21	24
8 ISO	24	27
10 ISO	30	34
12 ISO	36	40
14 ISO	42	47
16 DIN 766	18.5	20
7 1/4" DIN 766	22	23
8 - 5/16" DIN 766	24	26
10 - 3/8" DIN 766	28	34
13 - 1/2" DIN 766	36	44







ADVISOR

Up-to-date technical information

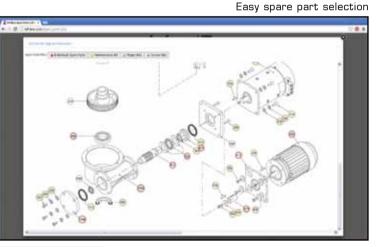


PRODUCTS

Comprehensive product selection

Complete spare parts information





Lofransi Will 3 Shearant Annual Control Form Lofransi Lofransi

To order spare parts, all is needed is an internet conection

SPARE PART ORDERING

IN 2 STEPS



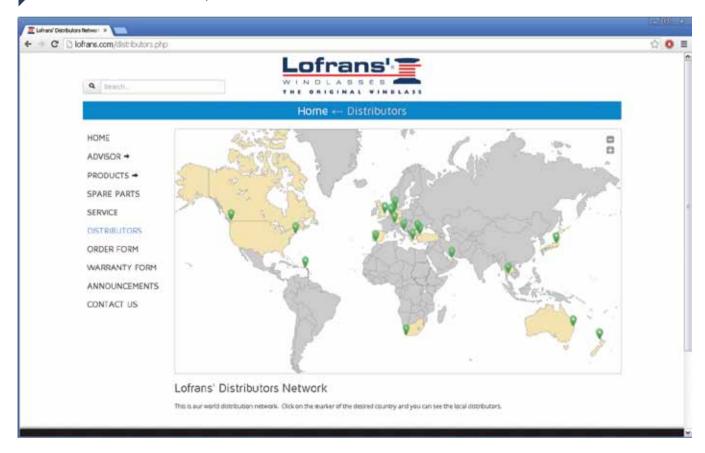
WARRANTY

Take advantage of the 3 year warranty period



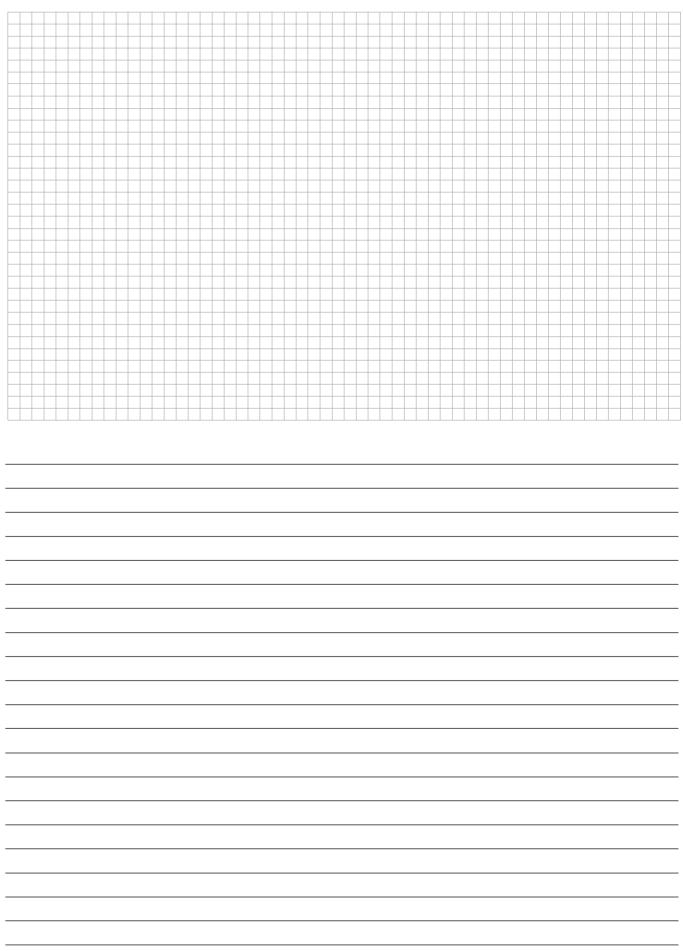
DISTRIBUTORS

Lofrans' international representation



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