

WinchMaster

SPECIALIST WINCH SOLUTIONS

COMPLIANT WITH EN 14492 REGULATIONS



NEW EUROPEAN STANDARDS & WINCHMASTER

New Harmonised European Standards: EN14492-1 for power driven winches, EN14492-2 for power driven hoists provide the means for conformity to essential Health and Safety requirements of the EC Machinery Directive.

Conformity to these standards is the joint responsibility of the supplier, the installer and the company operating the product.



Winchmaster products are fully compliant and carry a CE mark. A Declaration of Conformity is also supplied with each winch or hoist.

Selecting the correct winch or hoist for the application is very important not only from the health and safety aspect, but also to maximise product life and value for money.

Our aim at Winchmaster is to ensure the correct machine is supplied to suit the application and we welcome the opportunity of discussing the proposed application and offer advice. It will help us considerably if information regarding the maximum and average loads to be lifted or pulled - and approximate frequency of use can be provided.

For hoisting applications the minimum breaking force (MBF**) of the wire rope must be 5 x the lifting capacity of the hoist. The ratio of wire rope diameter to mean drum diameter* is usually at least 15:1. This will vary according to the application, the average operating time per day and the average and maximum weights being lifted.

For pulling applications (for example, in factories) as a general rule requires a wire rope with a MBF** relative to winch capacity of 3:1 and a rope to mean drum ratio* of 12:1.

For recovery vehicles the permissible standard of wire rope MBF** to winch rating can be a minimum 2:1 and the ratio of wire rope to mean drum ratio* only 10:1. This minimum standard is permitted because the running time is so short and the winch rarely sees maximum load.

Wire rope capacities the maximum amount of wire rope on the drum must leave a freeboard to the top of the drum flange of 1.5 x wire rope diameter to prevent the wire rope coming off the drum.

Winches and hoists with capacities over 1000kg must be load limited.

* Mean drum diameter = the drum diameter plus the diameter of the wire rope.

** MBF = the Minimum Breaking Force of the wire rope.

AC 1000 SERIES Pulling Winch with Freespool 1000kg

AC1000a (1000kg), AC1000b (1000kg)

110v or 240v x 1ph / 415v x 3ph AC

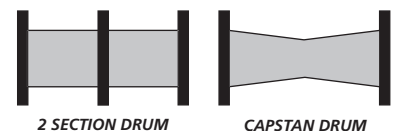
FEATURES INCLUDE

- **Single or 3 phase options**
A choice of 110v, 240v or 415v across the range
- **Integral brake**
Provides instant, safe braking
- **Low profile**
Allows winch to be installed in narrow spaces
- **Freespool clutch**
Enables easy unspooling of wire rope
- **Heavy duty mounting plate and roller guide**
For quick and simple installation
- **Motor to IP54 as Standard**
Other options available on request
- **2 metre pendant control**
Pre-wired to the winch with 2 buttons and emergency stop
- **2 metre power lead**
Pre-wired to the winch with commercial type plug

ADDITIONAL EQUIPMENT FROM WINCHMASTER

- **Wire rope**
- **Low voltage control (Standard on 415v x 3ph)**
- **Radio remote control - via low voltage control**
- **Weather proof enclosure**

Special machines can be built to meet customers' requirements. Examples include:



TO ESTABLISH WHICH WINCH OR HOIST IS SUITABLE FOR YOUR PROJECT, CALL WINCHMASTER NOW ON 01482 223663

WINCHMASTER Unit 6 South Orbital Trading Park Hedon Road Hull HU9 1NJ

T: +44 (0)1482 223663 F: +44 (0)1482 218285

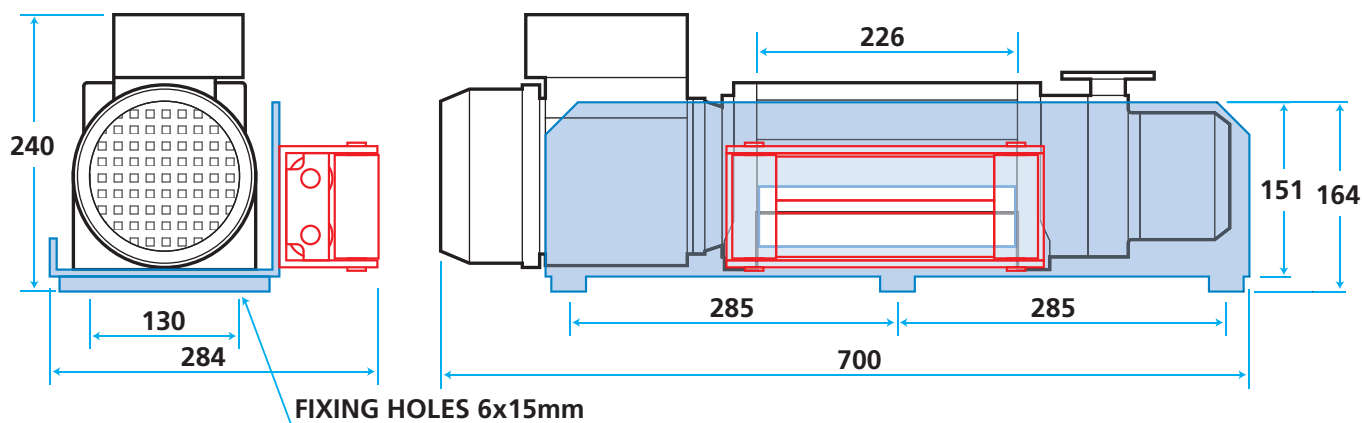
CALL SALES ON 01482 223663

E: sales@winchmaster.co.uk W: www.winchmaster.co.uk

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LINE PULL AND LINE SPEED PERFORMANCES

AC1000a

110v / 240v / 415v

		LAYER			
		1	2	3	4
Maximum Rated Line Pull by Layer	kN kgf	9.8 1000	8.0 820	6.9 700	5.9 600
AC1000a Rope Capacity Cumulative by Layer (7mm Dia. Wire Rope)	m	6	13.5	22.3	30
Line Speed*	m/min	4	4.4	4.9	5.4

* Based on recommended 7mm diameter wire rope, 1960N/mm² grade, 6 x 36 wire core construction

AC1000b

110v / 240v / 415v

		LAYER			
		1	2	3	4
Maximum Rated Line Pull by Layer	kN kgf	9.8 1000	8.0 820	6.9 700	5.9 600
AC1000b Rope Capacity Cumulative by Layer (7mm Dia. Wire Rope)	m	6	13.5	22.3	30
Line Speed*	m/min	2	2.2	2.5	2.8

* Based on recommended 7mm diameter wire rope, 1960N/mm² grade, 6 x 36 wire core construction

SPECIFICATIONS

AC1000a

AC1000b

Voltage options:	110v 1ph	240v 1ph	415v 3ph	110v 1ph	240v 1ph	415v 3ph
Standard working length:	20 metres					
Weight: Winch only	33kg					
Total kit average	47kg					
Motor:	Induction type					
Outputs: Kilowatts	1.1kw	1.1kw	1.1kw	0.55kw	0.55kw	0.55kw
Amperes	14amp	7amp	2.7amp	10amp	5amp	1.7amp
Braking:	Mechanical brake					
Drum & flange dimensions:	229mm length, drum \varnothing = 63.5mm, flange \varnothing = 150mm					
Wire rope: \varnothing x length	7mm x 30m					
Construction	1960N/mm ² grade, 6 x 36 wire core for maximum flexibility. Minimum factor of safety 3:1					
Rope \varnothing to drum \varnothing ratio: 10:1						

NOTES

These winches must not be used for the movement of personnel and 7 wraps of wire rope must be maintained on the drum.

Data shown is approximate and intended as a guide only.

WARRANTY

Each new winch is guaranteed against defects in workmanship and material defects for a period of twelve months from date of purchase.

WIRE ROPES ARE NOT INCLUDED UNDER WARRANTY.

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