



Bushey Hall Winchmaster
www.bhwgroup.com



CP SERIES LIFTING WINCHES 250-500kg

**CP250 (250kg), CP300 (300kg)
CP500 (500kg), CP500T (500kg)**

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

WINCH STANDARDS & BHW GROUP LTD:

The British Standard: BS EN14492-1 for power driven winches, BS EN14492-2 for power driven hoists provides the means for conformity to essential Health and Safety requirements of the EN Machinery Directive and essential Health & Safety at work Act 1974.

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



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

Our aim at BHW Group Ltd 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, as a general rule, winches used in pulling applications rarely see their maximum rated capacity and are used intermittently for short running periods. In these applications the wire rope MBF** to winch rating can be a minimum 2:1 and the ratio of wire rope to mean drum ratio* as low as 10:1.

In applications where the winch is used for longer running times and more frequently sees higher loading conditions the wire rope to MBF** should be 3:1 and the ratio of wire rope to mean drum ratio* 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 1.5x wire rope diameters 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.

FEATURES INCLUDE:

- **Single or 3 phase options**
CP250 = 110V & 240V x 1ph
CP300 = 240V x 1ph
CP500 = 240V x 1ph
CP500T = 415V x 3ph (Includes Low Voltage Control)
- **Electromagnetic, spring applied, failsafe brake**
Provides instant, safe braking
- **Bi-rotational**
CP winches can be installed with wire rope coming off the top or bottom of the drum
- **Enclosed drum flange**
Prevents rope becoming trapped between drum and support casing
- **Complete with wire rope**
Galvanised for longer life
- **Compact design**
For easy installation
- **Quiet running**
- **360° weighted safety hook**
Swivel type with safety catch
- **3 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
- **Motor to IP44 as standard**

OPTIONAL EXTRAS

- **Low voltage control (supplied as standard on 3ph)**
- **Radio remote control - via low voltage control**
- **Weather proof enclosure**

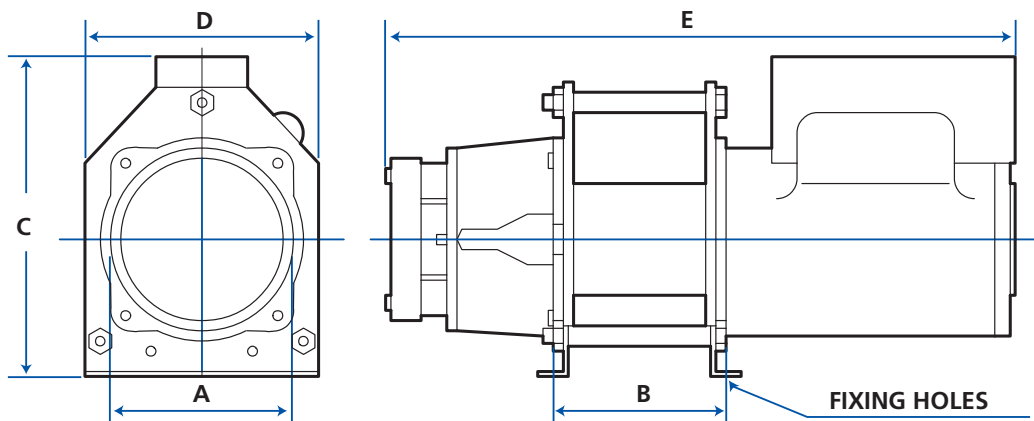
Bushey Hall Winchmaster sales@bhwgroup.com www.bhwgroup.com

Southern Office: Lismirrane Industrial Park, Elstree Road, Elstree, Herts, WD6 3EE Tel: +44 (0)20 8953 6050

Northern Office: 6 South Orbital Trading Park, Hedon Road, Hull, East Yorkshire, HU9 1NJ Tel: +44 (0)1482 223 663

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WINCH DIMENSIONS mm						
MODEL	A	B	C	D	E	Fixing holes
CP250	142	142	241	210	548	4 off Ø 10.5
CP300	142	142	241	210	576	4 off Ø 10.5
CP500	156	267	299	260	694	4 off Ø 13.5

SPECIFICATIONS		CP250		CP300	CP500	CP500T
Voltage options		110V, 1ph	240V, 1ph	240V, 1ph	240V, 1ph	415V, 3ph
Lifting:	Capacity	250kg		300kg	500kg	500kg
	Height of lift	28m		28m	42m	42m
Weight:	Winch only	34kg		38kg	55kg	54kg
	Total kit average	36kg		40kg	57kg	56kg
Line speed:	1st layer	10m/min		10m/min	10m/min	11.6m/min
	Last layer	15m/min		15m/min	15m/min	18.3m/min
Duty cycle:		1ph have a duty cycle of 25%, with a maximum of 60 starts per hour				
Wire rope:	Diameter ø x length	5mm x 30m		5mm x 30m	7mm x 45m	7mm x 45m
	Factor of safety	Minimum factor of safety 5:1 (for lifting)				
Motor type:		Induction motor				
Motor outputs:	Kilowatts	0.75kW		1.15kW	1.8kW	1.58kW
	Amperes	10A	5A	7.6A	12.8A	4A
Braking:		Electromagnetic spring applied failsafe.				
Drum:	Length	110mm		110mm	220mm	220mm
	Diameter Ø	94mm		94mm	102mm	102mm
	Flange Diameter Ø	154mm		154mm	180mm	180mm
Rope ø to mean drum ø ratio:		20:1		20:1	18:1	18:1

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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