

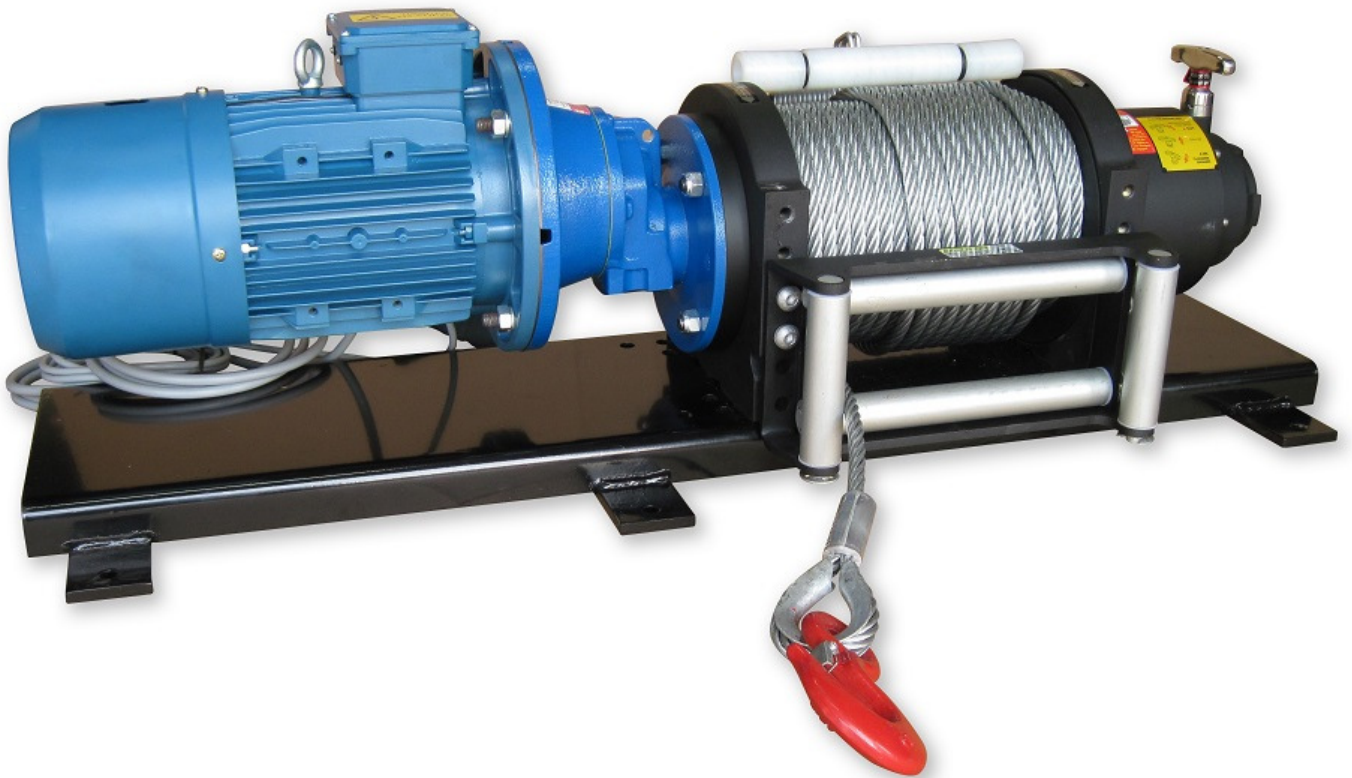
AC3000 Mk4 HEAVY DUTY 415v x 3ph AC WINCH

3000kg (24.9kN), 4000kg (39.2kN)

Line Pull with Freespool

TYPICAL USES: Plant Moving, Slipways, Machine Movement

Compliant with EN14492-1 Power Driven Winches



AC3000 KIT

Bushey Hall Winchmaster Heavy Duty Electric Winch, Low Voltage Controls With 3m Wanderlead and Load Limiter

OPTIONS

Mounting plate, Roller Guide, Tension Roller, Wireless IN-OUT Control, Wire Rope (model type dependant)

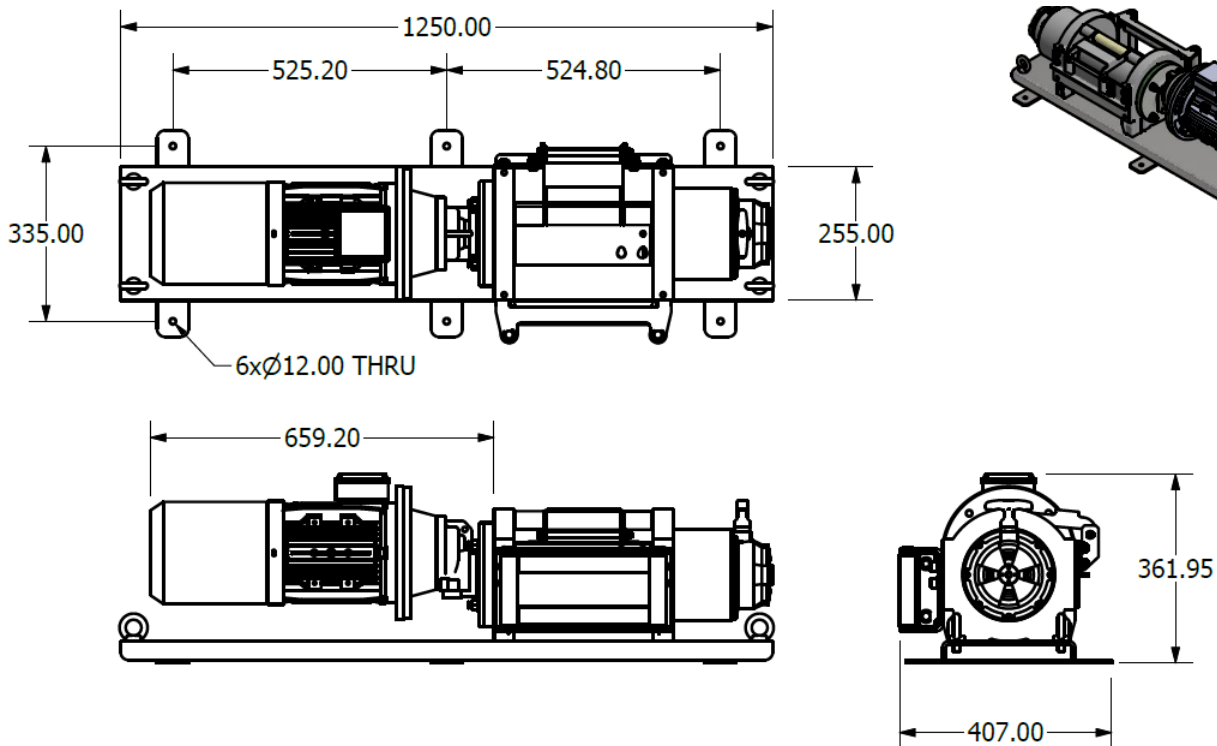
FEATURES INCLUDE

- **4 Stage Heavy Duty Machined Planetary Gearing** - Providing long life and high mechanical efficiency.
- **Induction braked Motor** – Provides instant, safe braking.
- **Electronic Load Limiter** - Supplied as standard.
- **Freespool Manual Clutch** – For easy and fast pay out of rope.
- **Secure wire rope anchorage** - Providing full load holding.
- **Low voltage Controls** - With Low voltage in the handset – Includes Emergency stop and 3m cables pre-wired to the winch as standard

AC3000 Mk4

HEAVY DUTY 415v x 3ph AC WINCH

WINCH DIMENSIONS



LEGAL COMPLIANCE

The Harmonised European Standard for pulling winches EN14492-1, states that any winch sold in the EU must comply with the essential Health and Safety requirements. To achieve this the following conditions must be met:

The rope used must provide a minimum breaking force (MBF) of 3:1 compared to the Working Load Limit of the winch. Example - for a 2 Tonne rated winch the MBL of the rope must be at least 4 Tonne.

The maximum diameter of the wire rope that can be used must have a minimum ratio of 10:1 compared with the pitch circle diameter of the first layer of rope on the drum. Example - for a winch with drum diameter 90mm and rope 10mm the pitch circle is 100mm so the minimum permissible ratio is 10:1.

The maximum rope length wound on the drum that is permitted must provide a freeboard from the top layer to the edge of the drum flange of 1.5 x rope diameter. Example - a 10mm diameter wire rope would require a 15mm freeboard from the top layer.

All winches applying a force above 1000kg must be load limited.

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AC3000 Mk4 WINCH VARIANTS

No.	Voltage	Rated Load per Layer (kg. / kN)				Line speed m/min				Wire rope		Rope Length m/layer				Motor Amps	Gear Ratio	
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	Ø mm	Length	1st	2nd	3rd	4th			
20285	415v	3000/29.4	2535/24.9	2196/21.5	1936/19	3.9	4.6	5.3	6.1	12	30m	10197kg	8.1	17.8	30	n/a	4.5	304:1
20286	415v	4000/39.2	3345/32.7	2872/28	2517/21.7	3.9	4.7	5.5	6.3	12	30m	13872kg	8.1	17.8	30	n/a	7.5	304:1

SPECIFICATIONS

Rated Line Pull	3000kg 29.4kN. & 4000kg 39.2kN
AC Motor	Powerful Induction type braked motor IP 54 rating.
Gearbox	4 stage planetary machined gears to transfer high power and torque to the winch drum.
Brake	Heavy duty automatic In- motor electronic fail-safe brake.
Drum size	119mm diameter x 267mm length. Flange diameter 240mm.
Wire Rope	3000kg - 12mm Ø galvanised 1960Nmm² tensile grade, 6 x 36 wire core construction, 10197kg (100kN) minimum braking strain. Maximum length 30 metres. This rope provides the 3:1 Working Load Limit (WLL) required by EN winch standard EN14492-1. Rope to drum ratio 10.9:1. 4000kg - 12mm Ø galvanised 2160Nmm² tensile grade, 35 x 7 wire core construction, 13872kg (135kN) minimum braking strain. Maximum length 30 metres. This rope provides the 3:1 Working Load Limit (WLL) required by EN winch standard EN14492-1. Rope to drum ratio 10.9:1.
Freespool Clutch	Spring-loaded sliding ring gear engaged and disengaged by rotating lever on gear housing.
Load Limiting Device	Electronic limiting device to provide 2:1 working load limit (WLL), for compliance with EN14492-1.
Low voltage Controls	Providing extended service life. They are pre-wired to accept optional wireless control saving significant installation time.
Wanderlead Control	3m control lead supplied as standard. Other wanderlead / extensions options available on request.
Wire Rope Tensioner	Optional. Spring loaded roller tensioner to assist wrapping.
Roller Guides	Optional. Heavy duty 4-way commercial type.
Mounting Plate	Optional. Ensures securing holes are all in alignment and not oversized.
Winch Weight	135 kg approximate.

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.

NOTES

Not be used for the movement of personnel.
Five wraps of wire rope must be maintained on the drum at all times. Date shown is approximate and intended as a guide only.