

Heavy Duty Hoist

DHC-2000

- Heavy duty series wound motor gives high torque and fast line speed
- Detachable control box mounted elsewhere on the vehicle
- High efficiency 3-stage planetary gear train for greater pulling force
- The U.S. Germany, U.K., France, etc patents automatic, full-load cone holds full load brake
- In compliance with standard of ANSI B30.5, D/d ≥ 18, and wire rope safety factor ≥ 3.5
- Provides an answer to the health and safety recommendations for manual lifting

SPECIFICATION

Lifting Load.....	907 kg / 2,000 lb
Motor	4,175 w / 5.6 hp for 12VDC
	2,684 w / 3.6 hp for 24VDC
Gear Train	3 stage planetary gears
Gear Ratio.....	261 : 1
Brake.....	automatic, full load cone brake
	PLUS auxiliary inverted current brake
Wire Rope Size	ø6.4 x 30.5 m (1/4" x 100')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ø114.3 x 146.8 mm (ø4.5" x 5.78")
Mounting bolst pattern	203.2 mm x 114 mm (8" x 4.5")

LINE SPEED AND AMP. DRAW

(1 st layer of wire rope on the drum)

Lifting Load	Line Speed	Amp. Draw	Percentage Duty Cycle
kg / lb	mpm / fpm	12V / 24V	% ED
0 / 0	10.2 / 33.5	75 / 50	25
230 / 500	7.1 / 23.3	140 / 80	23
450 / 1,000	6.0 / 19.7	170 / 100	20
680 / 1,500	4.9 / 16.1	190 / 120	18
907 / 2,000	4.2 / 13.8	210 / 140	15

LIFTING LOAD, LINE SPEED AND ROPE CAPACITY

Layer of Wire Rope	Lifting Load	Line Speed	Total Rope on the Drum
	kg / lb	mpm / fpm	m / ft
1st Layer	907 / 2,000	4.2 / 13.8	8.0 / 26.2
2nd Layer	820 / 1,808	4.6 / 15.1	16.8 / 55.1
3rd Layer	748 / 1,649	5.1 / 16.7	26.4 / 86.6
4th Layer	688 / 1,517	5.5 / 18.0	30.5 / 100.0

PACKAGE

Winch Weight	37 kg / 81.6 lb
Gross Weight	48 kg / 105.6 lb
Box Dimension	620 x 360 x 263 mm (24.4" x 14.2" x 10.4")

WARNING

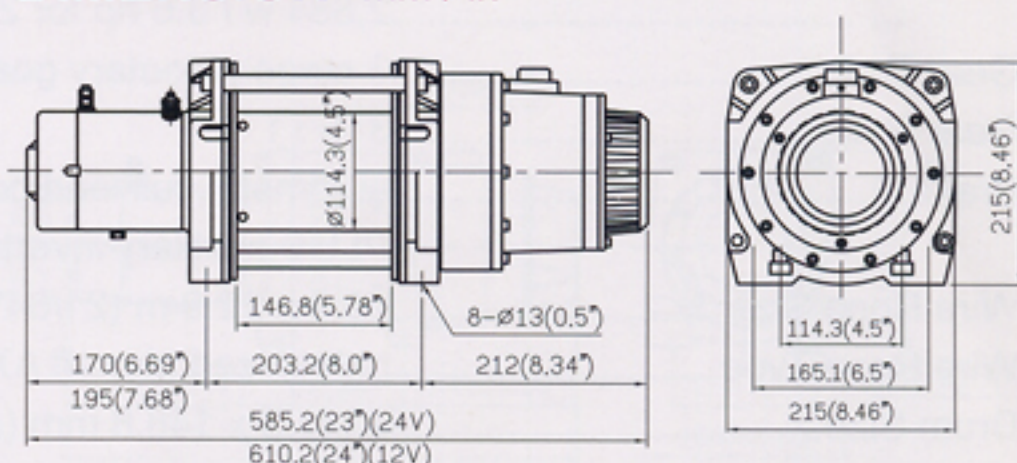
Hoist are not to be used for the lifting or moving of persons

WARRANTY

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



DIMENSION mm / in



PERCENTAGE DUTY CYCLE

Calculate the percentage duty cycle according to the following formula

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b + T_s} \times 100\%$$

T_b : total sum of overall loading operating hours

T_s : total sum of stopping hours

T_b+T_s= approximately 1 to 10 min

STANDARD ACCESSORIES

- Wire rope with hook
- Remote control WA-0310

