

Heavy Duty Hoist

DHC-3000

- 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, $D/d \geq 18$, and wire rope safety factor ≥ 3.5
- Provides an answer to the health and safety recommendations for manual lifting

SPECIFICATION

Lifting Load	1,360 kg / 3,000 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	315 : 1
Brake	automatic, full load cone brake
.....	PLUS auxiliary inverted current brake
Wire Rope Size	$\phi 8.3 \times 22.9$ m (21/64" x 75")
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	$\phi 141.3 \times 146.8$ mm ($\phi 5.56"$ x 5.78")
Mounting bolt 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	11.7 / 138.4	80 / 50	25
230 / 500	8.8 / 28.9	130 / 75	23
450 / 1,000	7.6 / 24.9	165 / 100	20
680 / 1,500	6.5 / 21.3	190 / 125	18
907 / 2,000	5.6 / 18.4	210 / 140	15
1,135 / 2,500	4.9 / 16.1	230 / 155	14
1,360 / 3,000	4.3 / 14.1	250 / 170	13

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	1,360 / 3,000	4.3 / 14.1	7.5 / 24.6
2nd Layer	1,224 / 2,698	4.8 / 15.8	15.9 / 52.2
3rd Layer	1,113 / 2,454	5.3 / 17.4	22.9 / 75.0

PACKAGE

Winch Weight	40 kg / 88 lb
Gross Weight	54.5 kg / 119.7 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

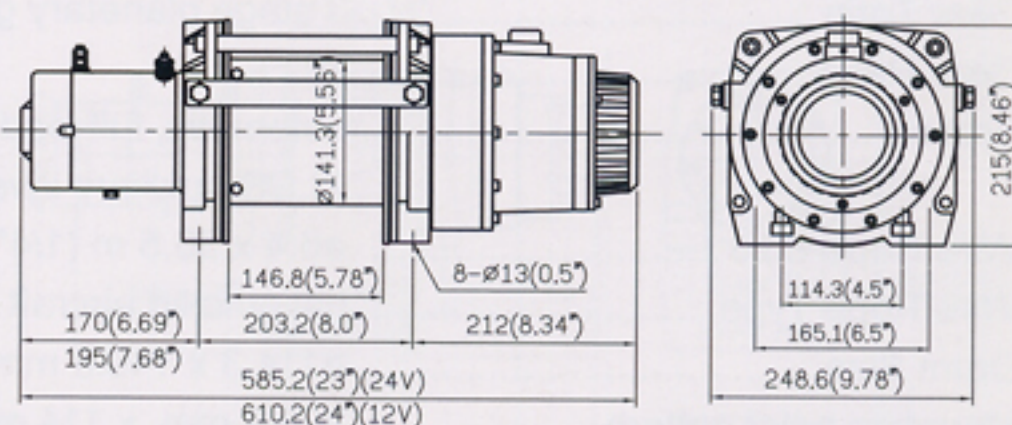
WARRANTY

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



Industry Duty

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

