

Heavy Duty Hoist

DHC-1600

- 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.....	726 kg / 1,600 lb
Motor	900 w / 1.2 hp for 12V DC
.....	600 w / 0.8 hp for 24V DC
Gear Train	3 stage planetary gears
Gear Ratio.....	216 : 1
Brake.....	automatic, full load cone brake
	PLUS auxiliary inverted current brake
Wire Rope Size	ø5.6 x 19.8 m (7/32" x 65')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ø95 x 115.3 mm (ø3.75" x 4.54")
Mounting bolts pattern	152.4 mm x 114 mm (6" 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	14.0 / 45.9	60 / 35	25
110 / 250	10.6 / 34.8	80 / 60	23
230 / 500	8.9 / 29.2	110 / 80	20
340 / 750	7.7 / 25.3	135 / 90	18
450 / 1,000	6.2 / 20.3	160 / 100	15
545 / 1,200	5.0 / 16.4	180 / 110	13
726 / 1,600	4.5 / 14.8	200 / 120	11

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	726 / 1,600	4.5 / 14.8	6.6 / 21.7
2nd Layer	657 / 1,448	5.0 / 16.4	13.9 / 45.6
3rd Layer	601 / 1,325	5.5 / 18.0	19.8 / 65.0

PACKAGE

Winch Weight	15 kg / 33 lb
Gross Weight	24 kg / 52.8 lb
Box Dimension	490 x 287 x 193 mm (17.3" x 11.3" x 7.6")

WARNING

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

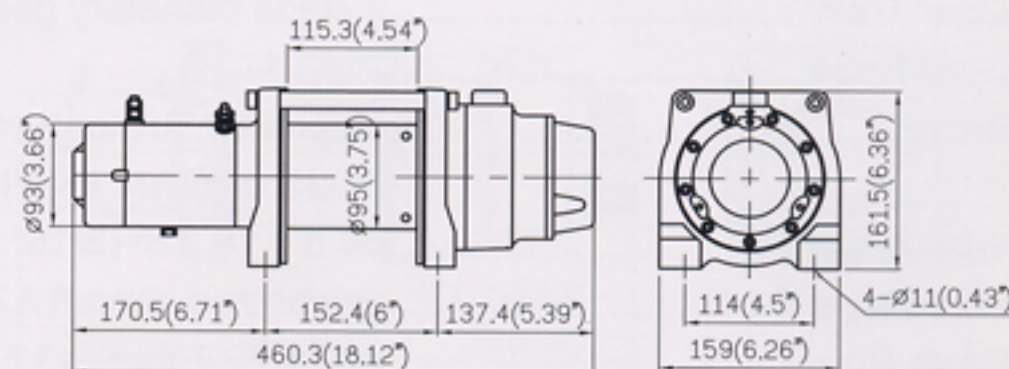
WARRANTY

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

