



# DC INDUSTRIAL HOIST PRODUCT DATA SHEET

MODEL	PART NUMBER	MOTOR TYPE
HOIST DC1000 12V SHORT	105151	Electric 12V

## ENGINEERING DATA

Rated Pulling Force:	1000 lbf	454 kgf
Drum Barrel Diameter:	2.0 in	51 mm
Drum Flange Diameter:	4.1 in	104 mm
Drum Width:	3.0 in	75 mm
Evaluated Rope Diameter:	7/32 in	5.6 mm
Maximum Wire Rope Diameter:	7/32 in	5.6 mm
Minimum Wire Rope Breaking Strength:	5600 lbf	2540 kgf
Maximum Layers of Wire Rope:	4	
Gear Train:	Planetary	
Gear Reduction:	154:1	
Mounting Bolt Size:	M8-1.25 X 20 mm Class 8.8	
Mounting Bolt Torque:	11 - 13 ft*lbf	15 - 17.6 N*m
Approximate Shipping Weight:	22 lbf	10 kgf
Brake Type:	Spring	
Sealing:	IP68/IP69K	
UV Rating:	800kJ hours per SAE J1960	
Corrosion Resistance:	240 hrs - ASTM B117; ASTM D1654	
Operating Temperature:	-30°C to 70°C	
EMC Emissions:	EN 50498:2010 per CISPR 25:2016	
EMC Immunity:	EN 50498:2010 per ISO 7637-2:2004	



## DESCRIPTION

The DC1000 hoist combines a powerful permanent magnet DC motor with robust sealing and our proven 3-stage all metal geartrain. Permanent grease lubrication means years of trouble free service. All WARN hoists incorporate an automatic mechanical brake that holds full rated load. The DC800 hoist is compact and comes standard with a steel mounting plate and hardware to make installation quick.

## ACCESSORIES

Description:	Part Number:
Roller Fairlead	29256
Wire Rope (7/32" x 50 ft)	68851
Control Pack - 12V	105646
Contact Only - 12V	83321
Remote Control Only	88528
Remote Control w/ E Stop	63680

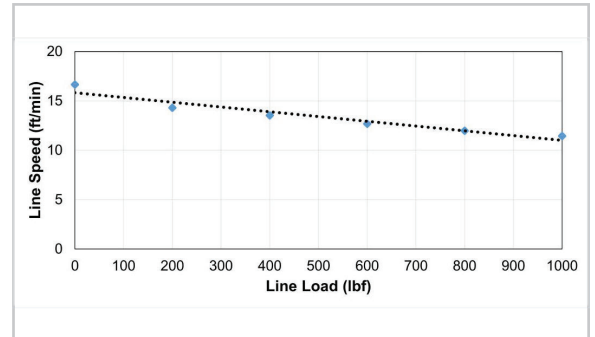
## STANDARDS COMPLIANCE

1. CE Machinery Directive 2006/42/EC
2. CE Electromagnetic Compatibility 2014/30/EU
3. CE RoHS Directive 2011/65/EU

## PERFORMANCE BY LAYER

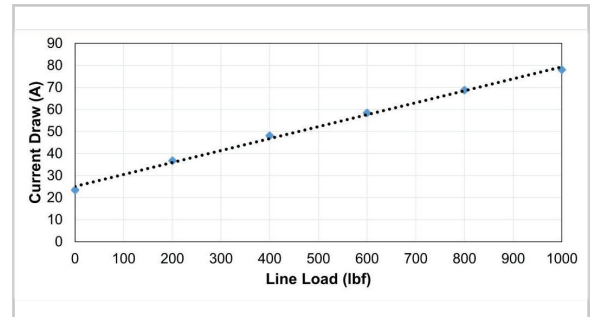
DRUM LAYER	LINE LOAD*			NO LOAD LINE SPEED		DRUM CAPACITY	
	lbf	kgf	kN	ft/min	m/min	ft	m
1	1000	455	4.5	15.4	4.7	11	3.4
2	835	380	3.7	18.0	5.5	25	7.6
3	717	326	3.2	20.7	6.3	40	12.2
4	628	285	2.8	23.3	7.1	55	16.8

\*Never exceed the Rated Pulling Force. Installation of a Rated Capacity Limiter is recommended



## FIRST LAYER PERFORMANCE

LINE LOAD		CURRENT DRAW	LINE SPEED		DUTY CYCLE
lbf	kgf	amps	ft/min	m/min	min/10min
0	0	23.4	15.4	4.7	10
200	91	36.7	14.3	4.4	10
400	181	48.1	13.5	4.1	10
600	272	58.3	12.7	3.9	10
800	363	68.6	12.0	3.7	10
1000	454	77.9	11.4	3.5	10

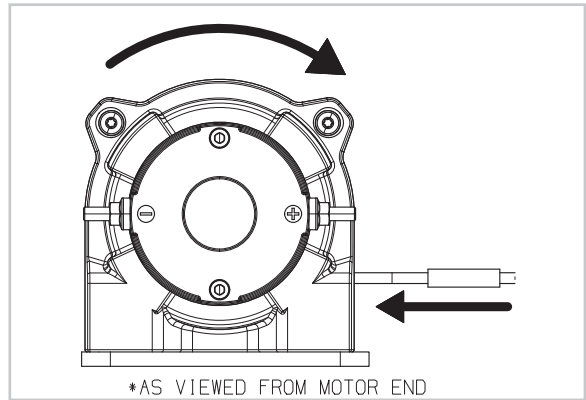




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HOIST DC1000 12V	105121	Electric 12V

## DRUM ROTATION (HOISTING)



## ELECTRICAL SYSTEM SPECIFICATIONS

Battery Voltage:	12V
Minimum Battery Rating:	650 CCA
Maximum Rated Input Speed:	5324 RPM

Hoist provided without electrical controls. See accessories on front page for control kits.  
 Power IN (Hoisting)- Connect Blue motor terminal to positive.  
 Connect Yellow motor terminal to negative (Ground).  
 Power OUT (Lowering)- Connect Yellow motor terminal to positive.  
 Connect Blue motor terminal to negative (Ground).

## RECOMMENDED MOUNTING

