

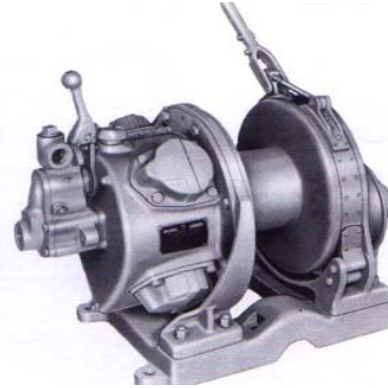


# Lifting Gear Hire Corporation

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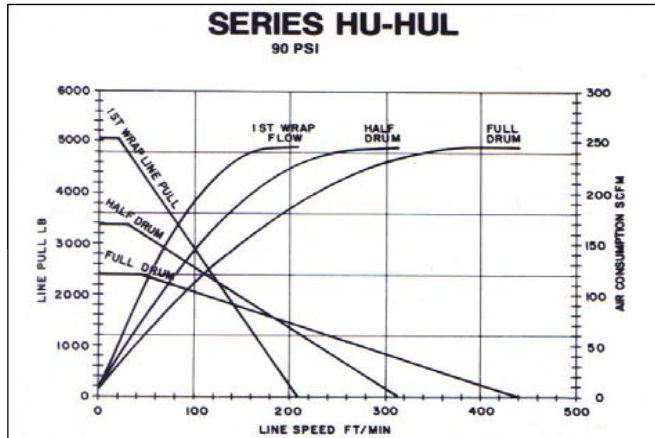
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## 2,500 lbs. Capacity Air Winch (HUL)

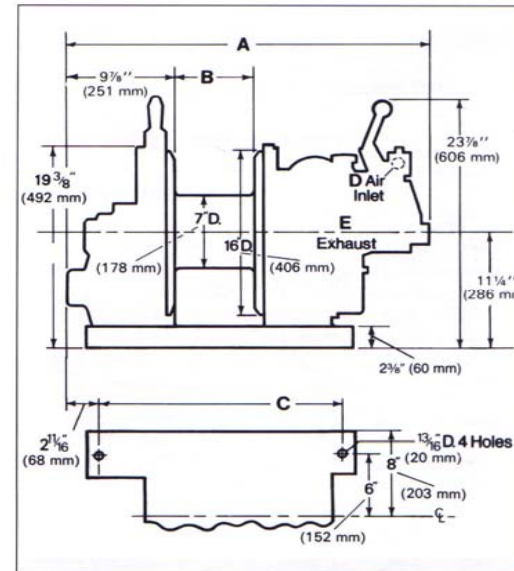
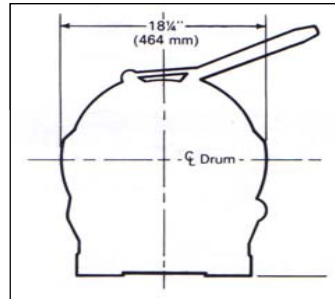


Winch Model:	HUL	Manufacture:	Ingersoll Rand
Line Pull (lbs.)	2,500	Weight (lbs.):	562 (No Cable)
(Nominal Capacity)		Line Speed (fpm)	110
Wire Rope Dia.. (in.)	1/2", 3/8", 7/16"	Drum Root Dia:	7"
Rope Anchor Hole Dia.:	11/16"	Motor HP:	11
Full Drum Capacity	813' (1/2" wire rope)	Avg. CFM Required:	175
	1012' (7/16" wire rope)	Drum Length	15 13/16"
	1445' (3/8" wire rope)	Max Stall Pull (lbs.)	5,000
		(First Layer @90 PSI)	

\*\* Recommended working length is 80% rope capacity



Dimensions:	
A	40 11/16"
B	15 3/16"
C	30 3/8"
D	1 NPT



### Wire Rope Storage Capacities

3/8" - 1445'	Cable Strength 13,120 lbs.
7/16" - 1012'	Cable Strength 17,800 lbs.
1/2" - 813'	Cable Strength 23,000 lbs.

\*\* NOTE: Cable Strength is the Breaking Strength.  
The Recommended safety factor for wire rope is;  
Pulling - 3.5:1      Lifting - 5.0:1

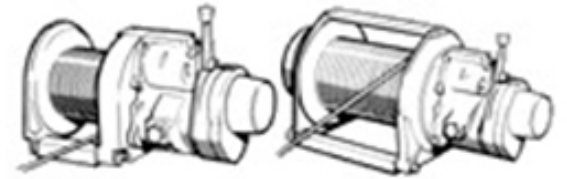
***This model Air Winch may be equipped with disengaging clutch. Please reference Ingersoll Rand parts bulletin form 5918 edition 8 June 1979 page 10 warning disengaging clutch parts: Operation of the motor with the clutch disengaged while holding a suspended load will allow the load to drop.***

\*\* Nominal capacity rating complies with ANSI B30.7 for Base Mounted Drum Hoists. Provides 5:1 design factor based on the rated line pull.



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## Wire Rope Selections for Winches *Lifting vs. Pulling*

Wire Rope Selection				
Rope Size (in.)	ⓈBreaking Strength in		Recommended Safe Working Load (lbs.)	
	2000 lb. tons	Wt./Ft. (lbs.)	Pulling 3.5:1 <sup>Ⓢ</sup>	Lifting/Lowering 5.0:1 <sup>Ⓢ</sup>
1/4 (0.25)	2.94	0.11	1,680	1,176
5/16 (0.31)	4.58	0.18	2,616	1,832
3/8 (0.38)	6.56	0.26	3,748	2,624
7/16 (0.44)	8.89	0.35	5,080	3,556
1/2 (0.50)	11.50	0.46	6,570	4,600
5/8 (0.63)	17.90	0.72	10,228	7,160
3/4 (0.75)	25.60	1.04	14,628	10,240
7/8 (0.88)	34.60	1.42	19,771	13,840
1 (1.00)	44.90	1.85	25,657	17,960
1 1/8 (1.125)	56.50	2.34	32,286	22,600

\*Nominal capacity rating complies with ANSI 830.7 for Base Mounted Drum Hoists. Provides 5:1 design factor based on the rated line pull.

\*Based on improved plow steel wire rope with independent wire core, except HSU models which require extra improved plow steel.

\*Regarding ropes, ANSI 830. requires a minimum of 3:5:1 origin factor with 15:1 rope pitch diameter to drum diameter for most winching applications (e.g. pulling/hauling and anchor handling). For lifting and lowering a 5:1 design factor with an 18:1 rope pitch diameter to drum diameter is required.

\*Extra improved plow steel IWRC wire rope.