



# Lifting Gear Hire Corporation

Phone: 800-878-7305 Fax: 708-430-3536

www.lgh-usa.com

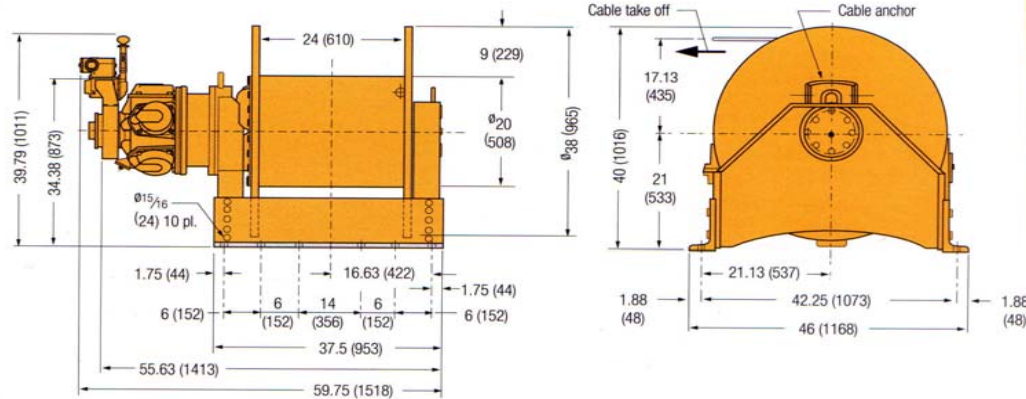
## 22,000 lbs. Capacity Air Winch (FA-10) 24" Drum

Winch Model:	FA-10-24	Manufacture:	Ingersoll Rand
Line Pull (lbs.)	22,000	Weight (lbs.):	3550 (No Cable)
(Nominal Capacity)		Line Speed (fpm)	23 (Top Layer)
Wire Rope Dia.. (in.)	3/4", 7/8", 1", 1 1/8"	Drum Root Dia:	NA
Rope Anchor Hole Dia.:	NA	Motor HP:	31
Full Drum Capacity	2488' (3/4" wire rope)	Avg. CFM Required:	800
	1962' (7/8" wire rope)	Drum Length	24"
	1332' (1" wire rope)	Max Stall Pull (lbs.)	38,000
	1026' (1 1/8" wire rope)	(First Layer @90 PSI)	



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

FA10-24 – Popeye – with disc brake only in inches (mm)



### Wire Rope Storage Capacities

2488' (3/4" wire rope)	Cable Strength 51,200 lbs.
1962' (7/8" wire rope)	Cable Strength 69,200 lbs.
1332' (1" wire rope)	Cable Strength 89,800 lbs.
1026' (1 1/8" wire rope)	Cable Strength 112,500 lbs.

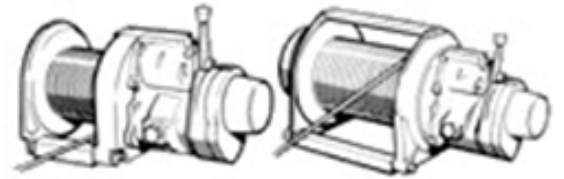
\*\* NOTE: Cable Strength is the Breaking Strength.  
The Recommended safety factor for wire rope is;  
Pulling - 3.5:1      Lifting - 5.0:1

\*\* 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.