

**“Third Generation” Air Winch Series**  
**FA2.5A/FA5A: 5000 to 10000 lb (2273 to 4545 kg) capacity**



The Third Generation Force 5 Series is designed for world-wide standards, meeting or exceeding North American ANSI / ASME B30.7 winch standards, CE requirements for Europe and third party Type Approval. The Third Generation offers standard features with reduced maintenance for safety, durability, reliability, enhanced control, and superior performance.

■ **Standard features:**

- Automatic disc brake or manual band brake
- Corrosion resistant, marine duty “Blue” fasteners
- New self-cleaning K5C2 control valve improves flow and performance, has more stainless steel and polymer corrosion resistant parts, and is totally interchangeable with previous designs. 100% natural gas/sour gas compatible.
- Easy to install wedge type self-tightening rope anchor
- Powerful 5 piston air motor.

■ **Safety is Built In:**

- Meets ASME B30.7 safety standards
- “Lift and shift” throttle lever prevents accidental throttle movement
- Throttle lever returns to OFF position and locks when released
- Disc brake is fully automatic and self-adjusting
- Wedge type, self tightening-rope anchor provides 80% of rope breaking strength

■ **Reliability**

- Maximum external corrosion protection against marine and other environments is provided as standard.
- Automatic oil bath disc brake has high thermal duty. Suitable for demanding applications.
- Marine grade alloys and stainless steel components make the valve chest corrosion resistant and maintenance free.

■ **Performance**

- Superior load spotting control
- Positive braking action with automatic disc brake



FA5A-LXK1

■ **Construction**

- Designed to meet the space and performance requirements of the Classic winches

■ **Options**

- Corrosion resistant marine grade coating system: Sandblast to white metal finish and carbozinc primer with a Marine 812 finish
- Band brakes – manual and automatic
- Remote controls
- Construction cages
- Open frame configurations
- Foot print base with K6U and K6UL bolt pattern for FA5A
- Free spool clutch
- Tensioning manifold
- Drum guard
- Underwound configuration
- CE package

**-E = Compliance with the European Machinery Directive. Includes as standard on utility rated winches:**

- 1 Main air supply shutoff
- 2 Overload device
- 3 Drum guard
- 4 Muffler
- 5 CE documentation

**Specifications\***

Description	FA2.5A		FA5A	
	5000 lbs	2273 kg	10000 lbs	4545 kg
Rated mid layer line pull, 5:1 DF	5000 lbs	2273 kg	10000 lbs	4545 kg
Rated mid layer line speed	114 fpm	35 m/min	32 fpm	10 m/min
Top (6th) layer line pull, 5:1 DF	4100 lbs	1860 kg	8000 lbs	3629 kg
Top (6th) layer line speed	141 fpm	43 m/min	43 fpm	13 m/min
Max. stall at first layer	10400 lbs	4727 kg	17000 lbs	7727 kg
Drum root diameter	9.25 in.	235 mm	12.75 in.	324 mm
Motor horsepower	25 hp		25 hp	
Avg air consumption	700 scfm	20 m <sup>3</sup> /min	700 scfm	20 m <sup>3</sup> /min
Air inlet, NPT size	1 1/4 in.	32 mm	1 1/4 in.	32 mm
Recommended rope diameter	5/8 in.	16 mm	3/4 in.	19 mm
Weight	818 lbs	372 kg	1251 lbs	569 kg

\* Performance is based on 90 psi (6.3 bar) air inlet pressure with the motor running.

**Wire rope storage capacity**

Rope dia in. mm	Length of drum in. (mm)								
	S 7 (178)		M 13 1/2 (343)		L 20 (508)		R 24 (610)		
	ft	m	ft	m	ft	m	ft	m	
<b>FA2.5A full drum storage</b>									
3/8	9	593	181	1176	359	1758	536	2116	645
7/16	11	460	140	915	279	1371	418	1651	503
1/2	13	356	109	712	217	1068	326	1287	392
5/8	16	206	63	416	127	625	191	754	230
		<b>Short drum</b>				<b>Long drum</b>			
		12 (305) <sup>(1)</sup>		15 (381) <sup>(2)</sup>		24 (610) <sup>(1)</sup>		27 (686) <sup>(2)</sup>	
<b>FA5A full drum storage</b>									
5/8	16	777	236	982	299	1597	486	1802	549
3/4	19	581	177	736	224	1200	366	1355	413

(1) With band brake

(2) Without band brake

Recommended drum working capacity is 80% of values shown.

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**Dimensions: FA2.5A**

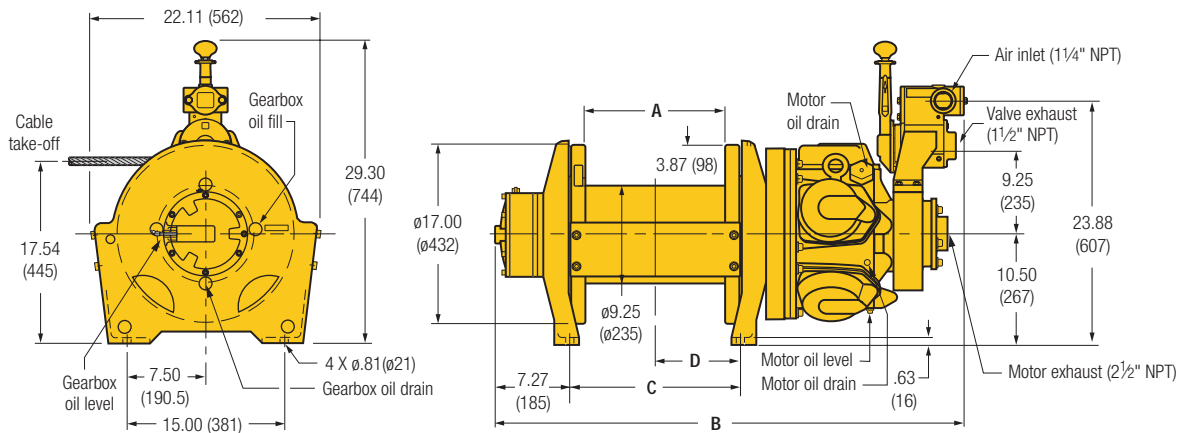
Model	Drum length		w/disc brake only				w/manual drum brake only				w/manual and disc brake									
	A		B		C		B		C		B		C		D					
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm				
FA2.5A-S	7	178	38.44	976	9.55	243	4.78	121	37.64	956	12.31	313	7.5	191	41.19	1046	12.31	313	7.5	191
FA2.5A-M	13.5	343	44.94	1141	16.05	408	8.03	204	44.14	1121	18.81	478	10.8	274	47.69	1211	18.81	478	10.8	274
FA2.5A-L	20	508	51.44	1306	22.55	573	11.28	286	50.64	1286	25.31	643	14	356	54.19	1376	25.31	643	14	356
FA2.5A-R	24	610	55.44	1408	26.55	674	13.28	337	54.64	1388	29.31	744	16	406	58.19	1478	29.31	744	16	406

**Dimensions: FA5A**

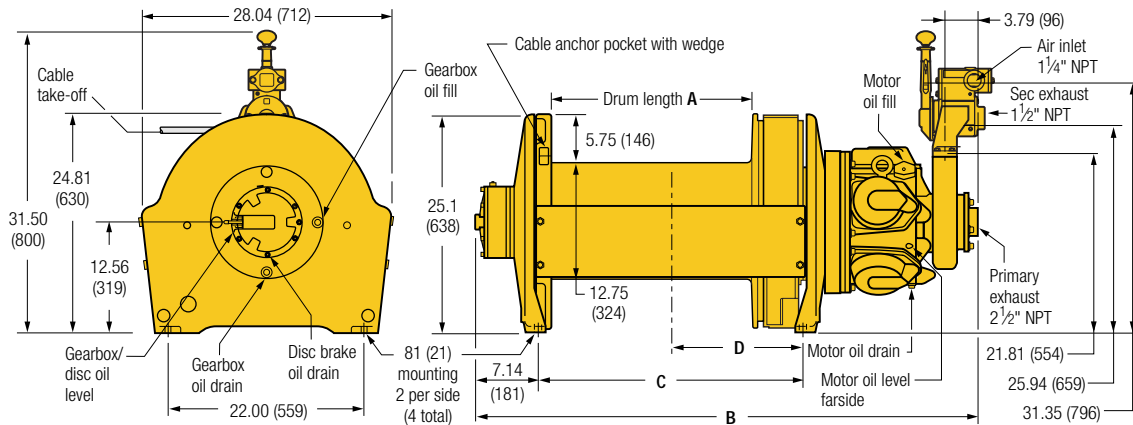
FA5A-SX	15	381	46.50	1181	17.89	454	8.94	227	43	1092	17.89	454	10.5	266	46.5	1181	17.89	454	10.5	266
FA5A-LX	27	686	58.50	1486	29.89	759	14.94	379	55	1397	29.89	759	16.5	419	58.5	1486	29.89	759	16.5	419

Note: Drum lengths for the FA5A-SM = 12 in. (305), and FA5A-LM = 24 in. (610 mm).

**FA2.5A in inches (mm)**



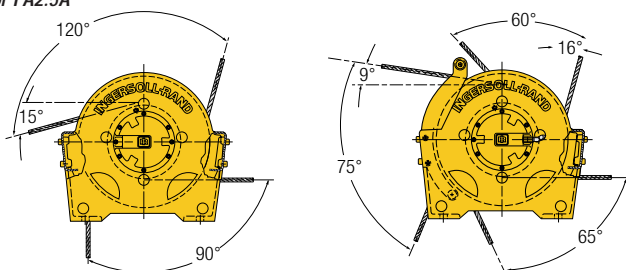
**FA5A in inches (mm)**



Dimensions are subject to change. Contact factory for certified prints

**Typical allowable wire rope takeoff angle:** Shaded areas represent allowable angle of rope takeoff without interference with winch structural supports.

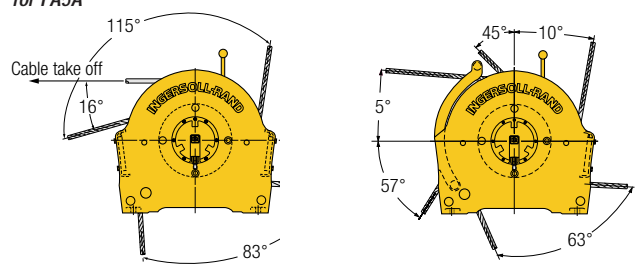
**for FA2.5A**



Standard Configuration

Open Front Configuration (Option H)

**for FA5A**



Standard Configuration

Open Front Configuration (Option H)

# "Third Generation" Air Winch Series

## FA2.5A/FA5A: 5000 to 10000 lb (2273 to 4545 kg) capacity



### How to Order:

Specify winch by complete model code as shown.

**Example:** FA5A-LXK1G = 10000 lb (4545 kg) capacity, 27" (686 mm) drum, auto disc brake, throttle-control and drum guard.

Series	Capacity	Generation	-	Drum length	Drum brake	Disc brake	Control	Options
FA	5	A	-	L	X	K	1	G
	2.5 = 2.5 ton (5000 lbs) 5 = 5 ton (10000 lbs)	A = Third generation		S = Short M = Medium L = Long R = Extra long Note: See drum length matrix below	A = Auto drum brake M = Manual drum brake X = No drum brake	X = No auto disc brake K = Auto disc brake		7 = Drum grooving (specify rope size in sixteenths, e.g. 7 = 7/16") C = Low temperature; please specify in text: -10° C or -20° C D = Drum divider flange and additional cable anchor E = Construction cage F = Free spool clutch <sup>(2)</sup> G = Drum guard H = Open frame for horizontal pulling K = K6 footprint base for FA5A M1 = Per DIN 50049/En10204 Para 2.2 "Typicals" <sup>(3)</sup> M2 = Per DIN 50049/En10204 Para 3.1b actual per product as purchased <sup>(3)</sup> M3 = Per DIN 50049/En10204 Para 3.1b actual per product as delivered in final condition <sup>(3)</sup> N = Type approval; please specify in text DNV, ABS or Lloyds P = Marine 812 finish Q = Special paint; please specify T = Tension manifold U = Underwound (available only with auto disc brake <b>XX</b> ) V = Press roller (specify takeoff angles) W = Witness; please specify X = Testing; please specify Z = Sandblast and carbozinc primer only -E = Compliance with the European Machinery Directive
	FA = Air powered							

FA2.5A Drum length					
Length of drum	Drum brake				
	without		with		
	in.	mm	in.	mm	
S	7	178	7	178	
M	13 1/2	343	13 1/2	343	
L	20	508	20	508	
R	24	610	24	610	

FA5A Drum length					
Length of drum	Drum brake				
	without		with		
	in.	mm	in.	mm	
S	15	381	12	305	
L	27	686	24	610	

1	= Standard winch mounted throttle
2XX	= Remote full flow lever throttle (max 20 ft/6 m)
3XX	= Remote pilot pendent throttle (std = 6 ft/1.8 m; max 66 ft/20 m) <sup>(1)</sup>
4XX	= Remote pilot lever throttle (max 66 ft/20 m) <sup>(1)</sup>
5XX	= Remote electric over air throttle
XX	= Specify hose length or pendent cord in feet

(1) With remote pilot control option, line speeds will decrease.  
(2) Only available with manual drum brake.  
(3) Documentation, witness testing and material traceability available; must be requested at time of order. Specify options or contact factory or your nearest Ingersoll-Rand distributor for information.

**M1** Material traceability certificates according to EN 10204 (Ex DIN 50049) 2.2 on load bearing parts. This conformity document affirms (by the manufacturer) that parts are in compliance with the requirements of the order based on non-specific inspection and testing (i.e. results are typical material properties for these parts.)

**M2** Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e. results are actual material properties for those parts.)

**M3** Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e. results are actual material properties for those parts in a finished, as delivered condition.)