Product Features and Specifications

FA7i Infinity Series Winch - Capacity: 15,400 lbs (7000 kg)

PFS-FA7i-09072010

Rugged Compact and Versatile Design

- · Meets ANSI / ASME B30.7
- 5:1 design factor at rated load
- Top layer rated line pull
- · "Lift to shift" winch mounted lever throttle
- Minimum 18:1 drum diameter to wire rope diameter ratio
- · Compact gearbox-in-drum design
- Standard design temperature range is 0°C through 60°C
- · Group of mechanism as per FEM: 5m
- · Pre-certified lifting lugs

Suitable for Hazardous Explosion Proof Environments

- Flameproof by design. Air motors (unlike electric motors) are inherently spark resistant.
- ATEX classification (as per directive EC 94/9/EEC).
 CE compliant models marked EX II 2 GD c 200°C X



- · Positive starting torque
- Infinitely variable speeds with precision spotting control
- · Superior reliability in harsh environments

Brake Systems

- · Manual drum brake standard
- Optional auto drum brake and /or auto disc available
- Fully enclosed automatic oil bath "wet" disc brake sealed against moisture and contaminants
- Ingersoll Rand recommends the use of automatic brakes whenever a winch is used for lifting

CE compliant versions provided with:

- Drum guard
- Overload protection (preset regulator)
- · Emergency stop
- Muffler
- · Automatic brake
- · Limit switches
- · CE documentation



Options and Accessories

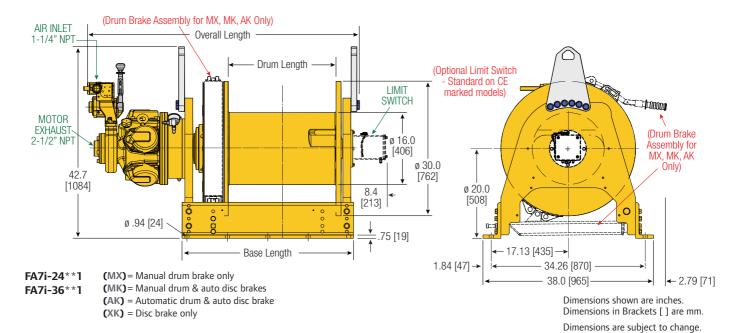
- DNV & ABS Type Approved models available
- · Low temperature versions
- · Overload and E-stop control system
- · Remote controls
- Limit switches
- Tensioning manifold
- · Drum guards*
- · Grooved drums
- · Drum divider flanges
- · Drum locks
- Spooling devices
- Marine paint systems
- · Air line accessories
- * Ingersoll Rand recommends using Drum Guards with all winches to prevent inadvertent contact with winch moving parts



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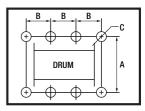
Dimensions: FA7i and Bolt Down Pattern

Drum Length 24" [610 mm]													
В	Drum (Brakes (N	& Disc //K & AK)		Brake (XK)	Drum Brake Only (MX)								
	in	mm	in	mm	in	mm							
Overall Length	60.8	1544	57.4	1458	57.8	1468							
Base Length	38.19	970	34.63	880	38.19	970							
'A'	34.25	870	34.25	870	34.25	870							
'B'	9.0	229	8.0	203	9.0	229							
'C'	0.94	24	0.94	24	0.94	24							
Total # Holes	10	O	1	.0	10	10							

Drum Length 36" [914 mm]												
Drum	& Disc	Disc l	Brake	Drum Brake								
Brakes (MK & AK)	Only	(XK)	Only (MX)								
in	mm	in	mm	in	mm							
72.8	1849	69.4	1763	69.8	1773							
50.19	1275	46.63	1184	50.19	1275							
34.25	870	34.25	870	34.25	870							
11.0	279	8.5	216	11.0	279 7							
0.94	24	0.94	24	0.94	24							
	10	1	2	10								

Bolt Down Pattern

Contact factory for certified drawings.



'C'= Bolt Hole Inside Diameter

Lift Ratings at 5:1 Design Factor (Performance at 6.3 Bar - 90 PSI at air inlet when winch is operating)																
Top Layer						First L	ayer									
	Rated			Speed at				Avera	ge Air	Sound	Inlet	Exhaust	Net			
		Capacity 5		Sp	eed Rated Capacity		Capacity	Stall Pull		Consumption (1)		Level (2)	Size	Size	Wei	ght
Model #	hp	lbs	kg	ft/min	m/min	ft/min	m/min	lbs	kg	f³/min	m³/min	db(A)	NPT	NPT	lbs	kg
FA7i	25.2	15,400	7000	40	12	35	11	35,946	16305	750	21	97	1-1/4"	2-1/2"	2,205	1000

(1) Average Air Consumption is at rated load and speed at top layer (2) With optional muffler

Drum Wi	Orum Wire Rope Storage Capacity - <u>Imperial</u> - Utility																
	Rated capacity	Rope Diameter	Min Req Break Strength*			Accı	umulat	ed rope	capacity	y in feet	t / num	ber of la	yers				
Series	lbs	in	lbs	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FA7i-24 15,400	3/4	77,000	136	283	442	613	795	989	1,194	1,411	1,640						
	15,400	7/8	77,000	117	245	385	536	699	873	1,059	1,256						
FA7i-36 15,400	3/4	77,000	206	430	671	930	1,206	1,500	1,811	2,140	2,486						
	15,400	7/8	77.000	177	372	584	814	1.061	1.326	1.608	1.908						

Drum Wir	e Rope	Storage	Capacity -	Metric	- Uti	ility											
	Rated capacity	Rope Diameter	Min Req Break Strength*			Accı	umulat	ed rope	capacit	y in met	ers / n	umber o	f layers	;			
Series	kg	mm	kg	1	2	3	4	5	6	7	8	9	10	- 11	12	13	14
EA7: 24	7000	22	34927	35	74	116	162	211	263	320	379						
FA7i-24	7000	25	34927	31	66	104	146	191	240	292							
FA7i-36	7000	22	34927	53	112	176	246	320	400	486	576						
	7000	25	34927	48	100	158	222	290	365	444							

^{*} **Note**: The Minimum Required Breaking Strength for the wire rope needs to be the Rated Capacity multiplied by the Design Factor. Example: for the FA7i-24 (with a 5:1 Design Factor) 15,400 x 5 = 77,000 lbs.