Product Features and Specifications

FA10i Infinity Series Winch - Capacity: 22,000 lbs (10000 kg)

PFS-FA10i-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

Powerful Radial Piston Air Motor

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

Brake Systems

- · Auto disc is standard
- · Optional manual or auto drum brake 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 quard
- · 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 quards*
- · 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



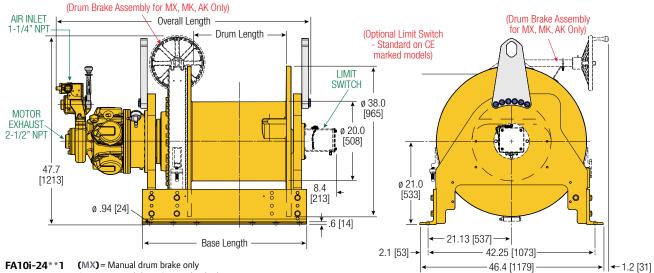
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(MK) = Manual drum & auto disc brakes FA10i-40**1 (AK) = Automatic drum & auto disc brake

(XK) = Disc brake only

Note: Winches equipped with manual drum brake only are designed only for pulling

Dimensions shown are inches. Dimensions in Brackets [] are mm.

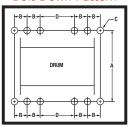
Dimensions are subject to change. Contact factory for certified drawings.

Dimensions: FA10i and Bolt Down Pattern

Drum Length 24" [610 mm] Drum L													
	Drum 8 Brakes (1	& Disc MK & AK)		Brake (XK)	Drum Only	** *	Drum & Dis Brakes (MK &						
	in	mm	in	mm	in	mm	in	mr					
Overall Length	63.8	1621	59.8	1519	63.6	1615	79.8	202					
Base Length	41.5	1054	37.5	952	41.5	1054	25.5	64					
'A'	42.25	1073	42.25	1073	42.25	1073	42.25	107					
'B'	6.0	152	6.0	152	6.0	152	8.0	20					
′C′	0.94	24	0.94	24	0.94	24	0.94	24					
Total # Holes	1	2	1	.2	1	2	12						

Drum Length 40" [1016 mm]												
	& Disc MK & AK)	Disc I Only	Brake	Drum Brake Only (MX)								
in	mm	in	mm	in	mm							
79.8	2027	75.6	1920	79.6	2022							
25.5	648	21.5	546	25.5	648							
42.25	1073	42.25	1073	42.25	1073							
8.0	203	8.0	203	8.0	203							
0.94	24	0.94	24	0.94	24							
1	12	1	2	12								

Bolt Down Pattern



'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	age Air	Sound	Inlet	Exhaust	Ne	t	
		Capacity		Speed		Rated 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
FA10i	26.9	22,000	10000	23	7	35	11	38,619	17517	800	23	101	1-1/4"	2-1/2"	3,200	1455

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

Drum Wir	Drum Wire Rope Storage Capacity - <u>Imperial</u> - Utility																
	Rated capacity	Rope Diameter	Min Req Break Strength*		Accumulated rope capacity in feet / number of layers												
Series	lbs	in	lbs	1	2	3	4	5	6	7	8	9	10	- 11	12	13	14
FA10i-24	22,000	1-1/8	110,000	112	236	371	518	676	845	1,026	1,218						
FA10i-40	22,000	1-1/8	110,000	191	402	631	880	1,149	1,437	1,744	2,070						

Drum Wi	Drum Wire Rope Storage Capacity - <u>Metric</u> - Utility																
	Rated capacity	Rope Diameter	Min Req Break Strength*	Accumulated rope capacity in meters / number of layers													
Series	kg	mm	kg	1	2	3	4	5	6	7	8	9	10	- 11	12	13	14
FA10i-24	10000	28	49895	35	73	116	161	210	262	318	377						
FA10i-40	10000	28	49895	59	125	196	273	356	445	540	641						

^{*} Note: The Minimum Required Breaking Strength for the wire rope needs to be the Rated Capacity multiplied by the Design Factor. Example: for the FA10i-24 (with a 5:1 Design Factor) $22,000 \times 5 = 110,000 \text{ lbs}$.



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