## **Product Features and Specifications**

FA2.5i Infinity Series Winch - Capacity: 5,000 lbs (2273 kg)

PFS-FA2.5i-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**

- · 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



Brake, Grooved Drum and Drum Guard

## **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

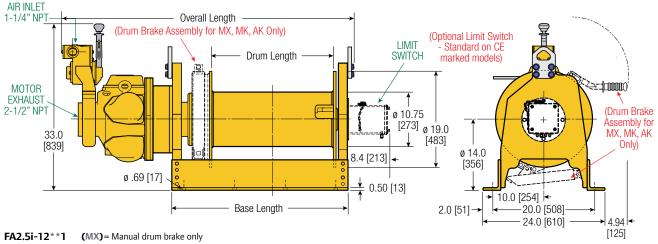




# **Product Features and Specifications**

## FA2.5i Infinity Series Winch - Capacity: 5,000 lbs (2273 kg)

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FA2.5i-24\*\*1 (MK)= Manual drum & auto disc brakes

(AK) = Automatic drum & auto disc brake

(XK) = Disc brake only

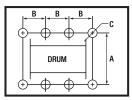
Dimensions shown are inches. Dimensions in Brackets [ ] are mm.

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

## **Dimensions: FA2.5i and Bolt Down Pattern**

Drum Leng	th 12	" [305	mm]	Drum Length 24" [610 mm]									
		& Disc		Disc Brake		Drum Brake		& Disc		Brake	Drum Brake		
	Brakes (MK & AK)			/ (XK)	Only	(MX)	Brakes (	MK & AK)	Only	(XK)	Only (MX)		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
Overall Length	45.8	1163	43.2	1097	42.8	1087	58.0	1473	55.2	1402	54.8	1392	
Base Length	22.8	579	20.11	511	22.8	579	34.8	884	32.11	816	34.8	884	
'A'	20.0	508	20.0	508	20.0	508	20.0	508	20.0	508	20.0	508	
'B'	9.0	229	8.0	203	9.0	229	10.0	254	9.0	229	10.0	254	
'C'	0.69	18	0.69	18	0.69	18	0.69	18	0.69	18	0.69	18	
Total # Holes	6		6			6		8	8	3	8		

## Bolt Down Pattern



'C'= Bolt Hole Inside Diameter

<b>Lift Ratings at 5:1 Design Factor</b> (Performance at 6.3 Bar - 90 PSI at air inlet when winch is operating)																
	Top Layer						First L	ayer								
	Rated			Speed at					age Air			Exhaust	Net			
		Capacity		Speed		Rated Capacity		Stall Pull		Consumption (1)		Level (2)	Size	Size	Weig	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
FA2.5i	25.2	5,000	2273	132	40	128	39	10,277	4671	700	20	97	1-1/4"	2-1/2"	1,061	481

<sup>(1)</sup> Average Air Consumption is at rated load and speed at top layer  $\,$  (2) With optional muffler

Drum Wire Rope Storage Capacity - <u>Imperial</u> - Utility																	
	Rated capacity		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
FA2.5i-12	5,000	5/8	25,000	54	114	180	251	328	410								
FA2.5i-24	5,000	5/8	25,000	111	234	369	515	673	843								

<b>Drum Wi</b>	Drum Wire Rope Storage Capacity - <u>Metric</u> - Utility																
	Rated capacity		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
FA2.5i-12	2273	16	11340	16	34	54	76	99	124								
FA2.5i-24	2273	16	11340	34	71	112	156	204	255								

<sup>\*</sup> **Note**: The Minimum Required Breaking Strength for the wire rope needs to be the Rated Capacity multiplied by the Design Factor. Example: for the FA2.5i-12 (with a 5:1 Design Factor) 5,500 x 5 = 25,000 lbs.



Quality Engineering... Safely Today

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