

# Infinity FA5i Air Winches 5,000 kg (11,000 lb)



Adjustable drum guardoptional but recommended for all applications (standard with -CE option) Lifting lugs designed for lifting weight of winch plus full drum of wire rope

> Minimum 18:1 drum diameter to wire rope diameter

#### **Self-cleaning** K5C2 control valve improves flow and performance

Radial piston air motor provides reliable power with adjustable speed for any use

#### Gearbox-in-drum design reduces size and helps

(R) Ingersoll Rand.

the winch fit in compact applications

#### **Fabricated steel** frame provides maximum durability

#### Ideal for:





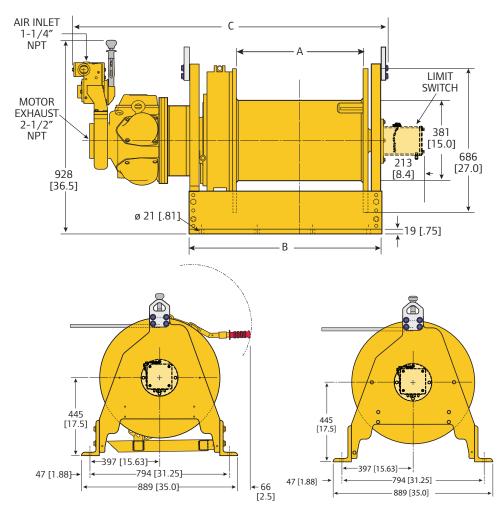




## Infinity FA5i Air Winches

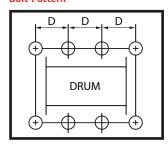
5,000 kg (11,000 lb)

Ingersoll Rand Infinity FA5i winches include the features you need for extreme durability in harsh conditions. With an all steel frame and powerful piston air motor the Infinity FA5i winch can lift up to 5,000 kg (11,000 lbs) no matter where that power is needed.



XK Option

#### **Bolt Pattern**



Dimensions shown are mm. Dimensions in Brackets [] are inches. Dimensions are subject to change. Contact factory for certified drawings.

	A	В			Bolt Pattern D					
Model	MX, XK, MK, AK mm (in)	MX,MK, AK mm (in)	XK mm (in)	MX mm (in)	XK mm (in)	MK,AK mm (in)	# of Bolt I MX,MK,AK	Holes XK	MX,MK,AK mm (in)	XK mm (in)
FA5i -16**1	406 (16.0)	720 (28.3)	605 (23.8)	1,234 (48.6)	1,204 (47.4)	1,311 (51.6)	6	6	229 (9.0)	159 (5.2)
FA5i -20**1	508 (20.0)	821 (32.3)	707 (27.8)	1,336 (52.6)	1,306 (51.4)	1,412 (55.6)	8	8	254 (10.0)	216 (8.5)
FA5i-24**1	610 (24.0)	923 (36.3)	809 (31.8)	1,438 (56.6)	1,407 (55.4)	1,514 (59.6)	8	8	267 (10.5)	229 (9.0)
FA5i-30**1	762 (30.0)	1,075 (42.3)	961 (37.8)	1,590 (62.6)	1,560 (61.4)	1,666 (65.6)	10	8	254 (10.0)	305 (12.0)
FA5i-36**1	914 (36.0)	1,228 (48.3)	1,114 (43.8)	1,742 (68.6)	1,712 (67.4)	1,819 (71.6)	10	8	279 (11.0)	356 (14.0)

MX, MK and AK Option

<sup>\*\*</sup> Indicated brake configuration. MX: Manual drum, no auto disc; XK: No manual drum, auto disc; MK: Manual drum, auto disc; AK: Auto drum, auto disc. Dimensions subject to change. Contact factory for certified prints. NOTE: Limit switches standard on -CE versions only.







Press Roller



Lubricator, Regulator, Filter

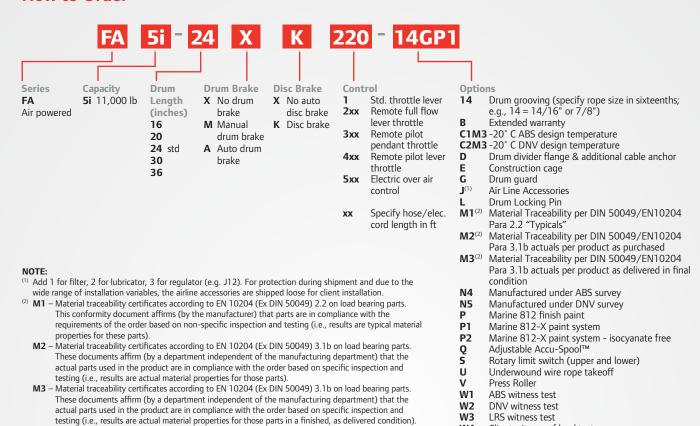
General Performance. Performance based on a 5:1 design factor										
		Line Pull Capacity		Line Speed						
Model	First Layer kg (lb)	Mid Drum kg (lb)	Top Layer kg (lb)	First Layer m/min (fpm)	Mid Drum m/min (fpm)	Top Layer m/min (fpm)				
FA5i-16**1	7,620 (16,800)	6,310 (13,900)	5,000 (11,000)	10 (35)	13 (44)	16 (54)				
FA5i-20**1	7,620 (16,800)	6,310 (13,900)	5,000 (11,000)	10 (35)	13 (44)	16 (54)				
FA5i-24**1	7,620 (16,800)	6,310 (13,900)	5,000 (11,000)	10 (35)	13 (44)	16 (54)				
FA5i-30**1	7,620 (16,800)	6,310 (13,900)	5,000 (11,000)	10 (35)	13 (44)	16 (54)				
FA5i-36**1	7,620 (16,800)	6,310 (13,900)	5,000 (11,000)	10 (35)	13 (44)	16 (54)				

General Characteristics. Performance at 6.3 bar (90 psi) air inlet pressure with the motor running										
	Motor	Lifting Speed at Top Layer	Air Consumption with Rated Load	Air Volume Needed to Move Rated Load at Top Layer	Stall	Sound Level as per EN 14492-1	Net Weight			
Model	kW (hp)	m/min (fpm)	m³/min (ft³/min)	3 m (10 ft)	kg (lb)	dB(A)	kg (lb)			
FA5i-16**1	18.8 (25.2)	16 (54)	20 (700)	3.8 (129.6)	10,725 (23,594)	97	849 (1,872)			
FA5i-20**1	18.8 (25.2)	16 (54)	20 (700)	3.8 (129.6)	10,725 (23,594)	97	849 (1,872)			
FA5i-24**1	18.8 (25.2)	16 (54)	20 (700)	3.8 (129.6)	10,725 (23,594)	97	849 (1,872)			
FA5i-30**1	18.8 (25.2)	16 (54)	20 (700)	3.8 (129.6)	10,725 (23,594)	97	849 (1,872)			
FA5i-36**1	18.8 (25.2)	16 (54)	20 (700)	3.8 (129.6)	10,725 (23,594)	97	849 (1,872)			

Drum Capacity											
	Minimum Rope Breaking Force <sup>(1)</sup>	Recommend- ed Rope Diameter		Drum Capacity per Layer <sup>(2)</sup> m (ft)							Max. Rope Storage Capacity <sup>(3)</sup>
Model	kN (lbs)	mm (in)	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	m (ft)
FA5i-16**1	245 (55,000)	20 (3/4)	24 (83	50 (175)	79 (274)	111 (380)	144 (495)	180 (616)	218 (746)	259 (883)	259 (883)
FA5i-20**1	245 (55,000)	20 (3/4)	30 (105	64 (221)	100 (346)	140 (480)	182 (624)	228 (778)	276 (941)	327 (1,114)	327 (1,114)
FA5i-24**1	245 (55,000)	20 (3/4)	37 (127	77 (267)	121 (418)	169 (580)	220 (754)	275 (940)	333 (1,137)	395 (1,346)	395 (1,346)
FA5i-30**1	245 (55,000)	20 (3/4)	46 (160	97 (336)	153 (526)	213 (730)	277 (949)	346 (1,183)	420 (1,431)	497 (1,693)	497 (1,693)
FA5i-36**1	245 (55,000)	20 (3/4)	56 (193	118 (405)	185 (633)	257 (880)	335 (1,144)	418 (1,425)	506 (1,724)	600 (2,041)	600 (2,041)

<sup>(1)</sup> Recommended minimum breaking force of wire rope based on top layer line pull rating.
(2) Drum Capacity is based on tightly wound wire rope. Recommended drum working capacity is 80% of values shown.
(3) Max storage capacity is tightly wound with no freeboard.

#### **How to Order**



Ingersoll Rand strongly recommends using Drum Guards with all winches to prevent inadvertent contact with winch moving parts

### **Special Orders**



Ingersoll Rand can provide customized solutions for your application. Whether you need to move specialized or high capacity loads or have custom control requirements, we can build the right solution for you. Ingersoll Rand's global account management team, dedicated project managers and engineering teams are focused exclusively on high capacity hoists and winches. From evaluation to installation and beyond, contact us to build your custom solution today.

W4

Client witness of load test

winches

Overload protector with E-Stop provided on lever

**Compliance with the European Machinery** Directive and EN14492-1 for power driven

- · Design for custom capacities
- Custom control systems
- Custom product modifications
- Witness testing and complete certification to most global standards
- · Full engineering capabilities including data packages and CAD drawings
- · Global Account Management and dedicated project management teams
- Onsite services available including presale evaluation, installation and maintenance





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