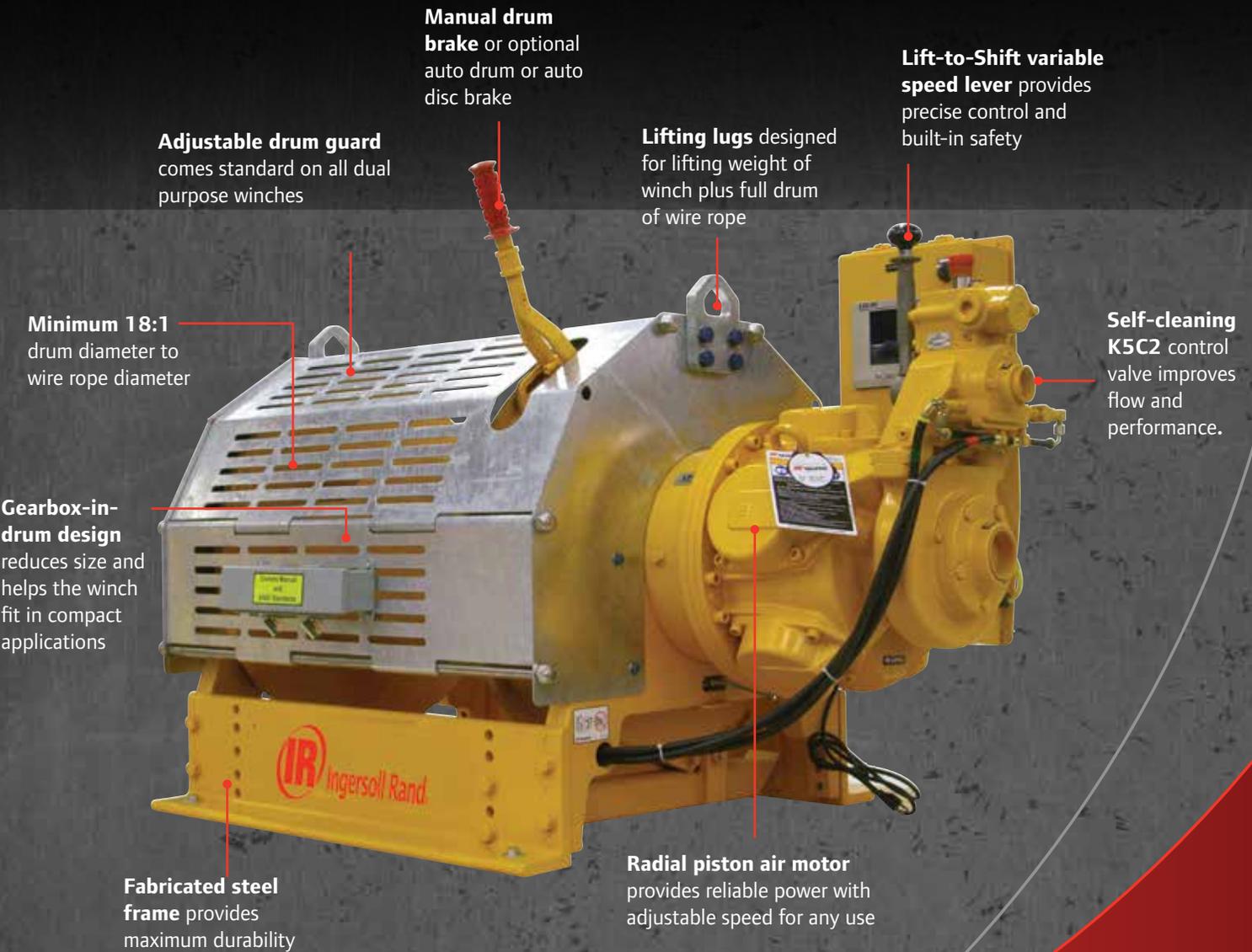




# Infinity FA5i Dual-Purpose Air Winches

3,123-5,000 kg (6,870-11,000 lb)



Ideal for:



Onshore



Offshore



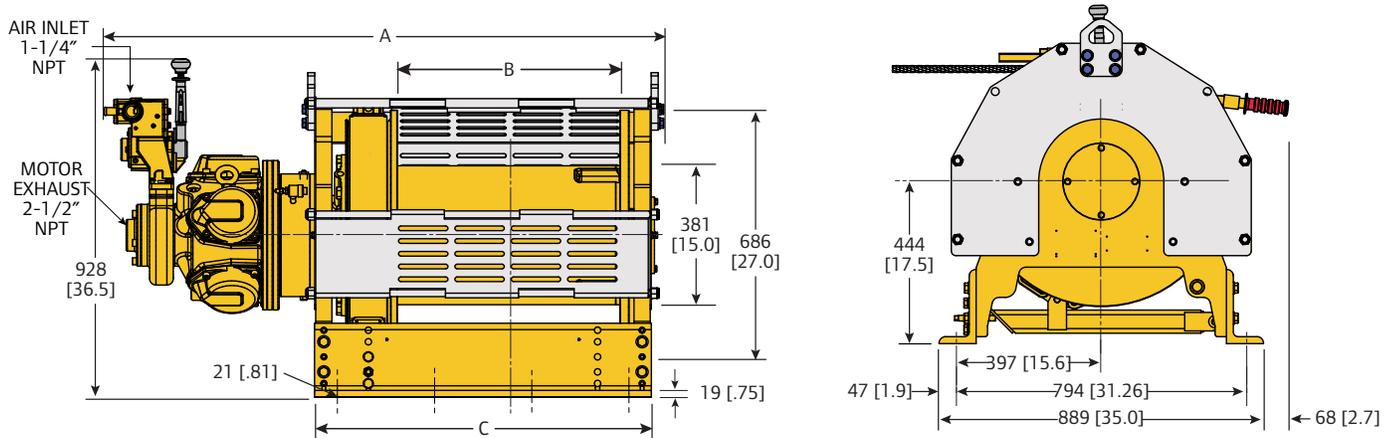
Marine



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3,123-5,000 kg (6,870-11,000 lb)

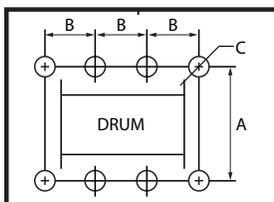
Ingersoll Rand Dual Purpose winches are designed to maximize the use of your equipment. They combine the time-tested, rugged durability of our standard Infinity winches with enhanced safety features for lifting personnel. In environments where dedicated Man Rider® winches are not required, Ingersoll Rand Dual Purpose winches offer you the versatility to lift people and material with one winch. Often copied, but never equaled, count on Ingersoll Rand Dual Purpose winches to get the job done.



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

Model	A mm (in)	B mm (in)	C mm (in)
FA5i-MR12MK1G	1,209 (47.6)	305 (12)	617 (24.3)
FA5i-MR16MK1G	1,311 (51.6)	406 (16)	719 (28.3)
FA5i-MR20MK1G	1,412 (55.6)	508 (20)	820 (32.3)
FA5i-MR24MK1G	1,514 (59.6)	610 (24)	922 (36.3)
FA5i-MR30MK1G	1,666 (65.6)	762 (30)	1,074 (42.3)
FA5i-MR36MK1G	1,819 (71.6)	914 (36)	1,227 (48.3)

### Bolt Pattern



Model	Bolt Down "A" Dimension	Bolt Down "B" Dimension	Bolt Down "C" Dimension	# of Bolt Holes
FA5i-MR12MK1G	794 (31.26)	191 (7.5)	21 (0.81)	6
FA5i-MR16MK1G	794 (31.26)	229 (9.0)	21 (0.81)	6
FA5i-MR20MK1G	794 (31.26)	254 (10.0)	21 (0.81)	8
FA5i-MR24MK1G	794 (31.26)	267 (10.5)	21 (0.81)	8
FA5i-MR30MK1G	794 (31.26)	254 (10.0)	21 (0.81)	8
FA5i-MR36MK1G	794 (31.26)	279 (11.0)	21 (0.81)	10



Grooved Drum



Press Roller



Optional overload with E-stop - standard on -CE units

**General Performance (Personnel Lifting). Performance based on a 8:1 design factor**

Model	Line Pull Capacity			Line Speed		
	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-MR24MK1G	4,760 (10,490)	3,940 (8,680)	3,123 (6,870)	19 (61)	21 (68)	23 (75)

**General Performance (Utility Lifting). Performance based on a 5:1 design factor**

FA5i-MR24MK1G	7,620 (16,800)	6,310 (13,900)	5,000 (11,000)	16 (51)	16 (52)	16 (54)
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**General Characteristics (Personnel Lifting). Performance at 6.3 bar (90 psi) air inlet pressure with the motor running**

Model	Motor	Lifting Speed at Top Layer	Air Consumption with Rated Load	Air Volume Needed to Move Rated Load at Top Layer	Sound Level as per EN 14492-1	Net Weight
	kW (hp)	m/min (fpm)	m <sup>3</sup> /min (ft <sup>3</sup> /min)	3 m (10 ft)	dB(A)	kg (lb)
FA5i-MR24MK1G	18.7 (25)	23 (75)	20 (700)	2.6 (93.3)	97	907 (2,000)

**General Characteristics (Utility Lifting). Performance at 6.3 bar (90 psi) air inlet pressure with the motor running**

FA5i-MR24MK1G	18.7 (25)	16 (54)	20 (700)	3.8 (129.6)	97	907 (2,000)
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**Drum Capacity (Personnel Lifting)**

Model	Minimum Rope Breaking Force <sup>(1)</sup> kN (lbs)	Recom- mended Rope Diameter mm (in)	Drum Capacity per Layer <sup>(2)</sup> m (ft)								Max. Rope Storage Capacity <sup>(3)</sup> m (ft)
			Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	
FA5i-MR24MK1G	244 (54,960)	19 (3/4)	29 (128)	81 (267)	127 (418)	177 (581)	230 (755)	287 (940)	347 (1,138)	410 (1,346)	410 (1,346)

**Drum Capacity (Utility Lifting)**

FA5i-MR24MK1G	245 (55,000)	19 (3/4)	29 (128)	81 (267)	127 (418)	177 (581)	230 (755)	287 (940)	347 (1,138)	410 (1,346)	410 (1,346)
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<sup>(1)</sup> Recommended minimum breaking force of wire rope based on top layer line pull rating.

<sup>(2)</sup> Drum Capacity is based on tightly wound wire rope and 1/2" freeboard from the top of the flange to the top layer. Recommended drum working capacity is 80% of values shown.

<sup>(3)</sup> Max storage capacity is tightly wound with no freeboard.

## How to Order

Series	Capacity (lb)	Man Rider®	Drum Length (in)	Drum Brake	Disc Brake	Control	Options
<b>FA</b>	<b>5i</b> 6,870	<b>MR</b> Man Rider®	<b>24</b>	<b>M</b> Manual drum brake	<b>K</b> Disc brake (standard)	<b>1</b> Std. throttle lever	<b>10</b> Drum grooving (specify rope size in sixteenths; e.g., 10 = 10/16" or 5/8")
Air powered			<b>12</b> <b>16</b> <b>20</b>	<b>A</b> Auto drum brake		<b>2xx</b> Remote full flow lever throttle	<b>C1M3</b> -20° C ABS design temperature
			<b>24</b> std			<b>3xx</b> Remote pilot pendant throttle	<b>C2M3</b> -20° C DNV design temperature
			<b>30</b>			<b>4xx</b> Remote pilot lever throttle	<b>E</b> Construction Cage
			<b>36</b>			<b>5xx</b> Electric over air control	<b>G</b> Drum Guard (standard)
						<b>xx</b> Specify hose/elec. cord length in ft	<b>J<sup>(1)</sup></b> Air Line Accessories
							<b>M1<sup>(2)</sup></b> Material Traceability per DIN 50049/EN10204 Para 2.2 "Typicals"
							<b>M2<sup>(2)</sup></b> Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased
							<b>M3<sup>(2)</sup></b> Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as delivered in final condition
							<b>N4</b> Manufactured under ABS survey
							<b>N5</b> Manufactured under DNV survey
							<b>P</b> Marine 812 finish paint
							<b>P1</b> Marine 812-X paint system
							<b>P2</b> Marine 812-X paint system - isocyanate free
							<b>S</b> Rotary limit switch (upper and lower)
							<b>U</b> Underwound wire rope takeoff
							<b>V</b> Press Roller
							<b>W1</b> ABS witness test
							<b>W2</b> DNV witness test
							<b>W3</b> LRS witness test
							<b>W4</b> Client witness of load test
							<b>Y</b> Overload protector with E-Stop provided on lever throttle
							<b>-CE</b> Compliance with the European Machinery Directive and EN14492-1 for power driven winches

### NOTE:

<sup>(1)</sup> Add 1 for filter, 2 for lubricator, 3 for regulator (e.g. J12). For protection during shipment and due to the wide range of installation variables, the airline accessories are shipped loose for client installation.

- <sup>(2)</sup> **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).



For More Information [www.ingersollrandproducts.com/lifting](http://www.ingersollrandproducts.com/lifting) [lifting@irco.com](mailto:lifting@irco.com)

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