



Infinity FA2i Dual-Purpose Air Winches

1,445-2,000 kg (3,180-4,400 lb)

Lifting lugs designed for lifting weight of winch plus full drum of wire rope

Minimum 18:1 drum diameter to wire rope diameter

Lift-to-Shift variable speed lever provides precise control and built-in safety

Adjustable drum guard comes standard on all dual purpose winches

Gearbox-in-drum design reduces size and helps the winch fit in compact applications

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

Ideal for:



Onshore



Offshore



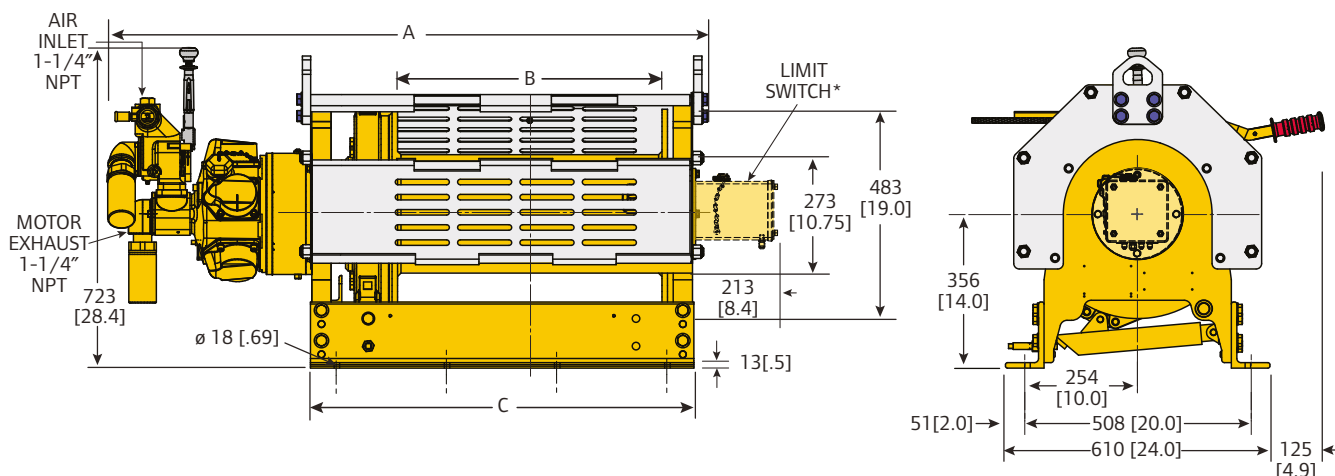
Marine



Infinity FA2i Dual-Purpose Air Winches

1,445-2,000 kg (3,180-4,400 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.

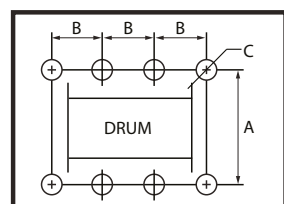


*Limit Switches standard on -CE versions only.

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)
FA2i-MR8MK1G**	935 (36.8)	203 (8)	478 (18.8)
FA2i-MR12MK1G**	1,036 (40.8)	305 (12)	579 (22.8)
FA2i-MR16MK1G**	1,138 (44.8)	406 (16)	681 (26.8)
FA2i-MR20MK1G**	1,240 (48.8)	508 (20)	782 (30.8)
FA2i-MR24MK1G**	1,341 (52.8)	610 (24)	884 (34.8)

Bolt Pattern



Model	Bolt Down "A" Dimension	Bolt Down "B" Dimension	Bolt Down "C" Dimension	# of Bolt Holes
FA2i-MR8MK1G**	508 (20.0)	178 (7.0)	18 (0.69)	6
FA2i-MR12MK1G**	508 (20.0)	229 (9.0)	18 (0.69)	6
FA2i-MR16MK1G**	508 (20.0)	191 (7.5)	18 (0.69)	8
FA2i-MR20MK1G**	508 (20.0)	229 (9.0)	18 (0.69)	8
FA2i-MR24MK1G**	508 (20.0)	254 (10.0)	18 (0.69)	8



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)
FA2i-MR24MK1G	2,153 (4,740)	1,800 (3,970)	1,445 (3,180)	21 (68)	22 (71)	23 (75)

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

FA2i-MR24MK1G	2,980 (6,600)	2,490 (5,500)	2,000 (4,400)	17 (55)	16 (52)	16 (52)
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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 (f/fpm)	m ³ /min (ft ³ /min)	3 m (10 ft)	dB(A)	kg (lb)
FA2i-MR24MK1G	6.7 (9)	23 (75)	8 (280)	1.0 (37.3)	87	420 (925)

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

FA2i-MR24MK1G	6.7 (9)	16 (51)	8 (280)	1.5 (54.9)	87	420 (925)
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Drum Capacity (Personnel Lifting)

Model	Minimum Rope Breaking Force ⁽¹⁾ kN (lbs)	Recom- mended Rope Diameter mm (in)	Drum Capacity per Layer ⁽²⁾ m (ft)								Max. Rope Storage Capacity ⁽³⁾ m (ft)
			Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	
FA2i-MR24MK1G	113 (25,440)	13 (1/2)	41 (138)	86 (289)	135 (450)	187 (624)	242 (809)	301 (1,006)	364 (1,214)	430 (1,435)	430 (1,435)

Drum Capacity (Utility Lifting)

FA2i-MR24MK1G	97.9 (22,000)	13 (1/2)	41 (138)	86 (289)	135 (450)	187 (624)	242 (809)	301 (1,006)	364 (1,214)	430 (1,435)	430 (1,435)
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⁽¹⁾ Recommended minimum breaking force of wire rope based on top layer line pull rating.

⁽²⁾ 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.

⁽³⁾ Max storage capacity is tightly wound with no freeboard.

How to Order

<div> <div>FA</div> <div>2i</div> <div>-</div> <div>MR</div> <div>24</div> <div>M</div> <div>K</div> <div>1</div> <div>10GP</div> </div>								
Series	Capacity (lb)	Man Rider®	Drum Length (in)	Drum Brake	Disc Brake	Control	Options	
FA Air powered	2 3180	MR Man Rider®	8 12 16 20 24 std	M Manual drum brake A Auto drum brake	K Disc brake (standard)	1 Std. throttle lever 2xx Remote full flow lever throttle 3xx Remote pilot pendant throttle 4xx Remote pilot lever throttle 5xx Electric over air control xx Specify hose/elec. cord length in ft	10 Drum grooving (specify rope size in sixteenths; e.g., 10 = 10/16" or 5/8") C1M3 -20° C ABS design temperature C2M3 -20° C DNV design temperature E Construction Cage G Drum Guard (standard) J ⁽¹⁾ Air Line Accessories M1 ⁽²⁾ Material Traceability per DIN 50049/EN10204 Para 2.2 "Typicals" M2 ⁽²⁾ Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased M3 ⁽²⁾ Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as delivered in final condition N4 ⁽²⁾ Manufactured under ABS survey N5 Manufactured under DNV survey P Marine 812 finish paint P1 Marine 812-X paint system P2 Marine 812-X paint system - isocyanate free S Rotary limit switch (upper and lower) U Underwound wire rope takeoff V Press Roller W1 ABS witness test W2 DNV witness test W3 LRS witness test W4 Client witness of load test Y Overload protector with E-Stop provided on lever throttle -CE Compliance with the European Machinery Directive and EN14492-1 for power driven winches	

NOTE:

⁽¹⁾ 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.

- ⁽²⁾ **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 lifting@irco.com

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Infinity 2.5i Dual Purpose Air Winches

1,445-2,273 kg (3,180-5,000 lb)

Lift-to-Shift variable speed lever provides precise control and built-in safety

Adjustable drum guard comes standard on all dual purpose winches

Minimum 18:1 drum diameter to wire rope diameter

Lifting lugs designed for lifting weight of winch plus full drum of wire rope

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

Gearbox-in-drum design reduces size and helps the winch fit in compact applications

Fabricated steel frame provides maximum durability



Ideal for:



Onshore



Offshore



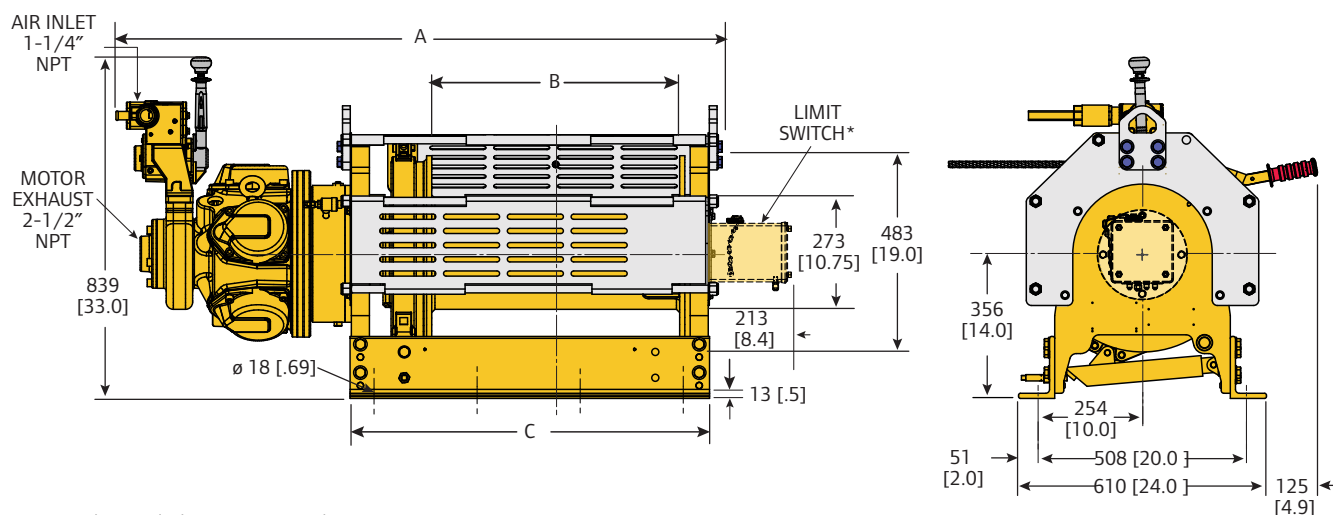
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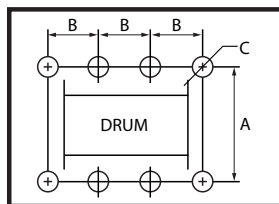


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Dimensions shown are mm. Dimensions in Brackets [] are inches. Dimensions are subject to change. Contact factory for certified drawings.

Model	A mm (in)	B mm (in)	C mm (in)
FA2.5i-MR8MK1G	914 (36)	203 (8)	478 (18.8)
FA2.5i-MR12MK1G	1,168 (46)	305 (12)	579 (22.8)
FA2.5i-MR16MK1G	1,270 (60)	406 (16)	681 (26.8)
FA2.5i-MR20MK1G	1,372 (54)	508 (20)	782 (30.8)
FA2.5i-MR24MK1G	1,473 (58)	610 (24)	884 (34.8)

Bolt Pattern



Model	Bolt Down "A" Dimension	Bolt Down "B" Dimension	Bolt Down "C" Dimension	# of Bolt Holes
FA2.5i-MR8MK1G	508 (20.0)	178 (7.0)	18 (0.69)	6
FA2.5i-MR12MK1G	508 (20.0)	229 (9.0)	18 (0.69)	6
FA2.5i-MR16MK1G	508 (20.0)	191 (7.5)	18 (0.69)	8
FA2.5i-MR20MK1G	508 (20.0)	229 (9.0)	18 (0.69)	8
FA2.5i-MR24MK1G	508 (20.0)	254 (10.0)	18 (0.69)	8



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)
FA2.5i-MR24MK1G	2,185 (4,820)	1,815 (4,000)	1,445 (3,180)	44 (145)	49 (159)	53 (173)

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

FA2.5i-MR24MK1G	3,440 (7,600)	2,856 (6,300)	2,273 (5,000)	39 (128)	39 (130)	40 (132)
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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 ³ /min (ft ³ /min)	3 m (10 ft)	dB(A)	kg (lb)
FA2.5i-MR24MK1G	18.7 (25)	53 (173)	20 (700)	1.1 (40.5)	97	574 (1,265)

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

FA2.5i-MR24MK1G	18.7 (25)	40 (132)	20 (700)	1.5 (53.0)	97	574 (1,265)
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Drum Capacity (Personnel Lifting)

Model	Minimum Rope Breaking Force ⁽¹⁾ kN (lbs)	Recom- mended Rope Diameter mm (in)	Drum Capacity per Layer ⁽²⁾ m (ft)								Max. Rope Storage Capacity ⁽³⁾ m (ft)
			Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	
FA2.5i-MR24MK1G	113 (25,440)	13 (1/2)	41 (138)	86 (289)	135 (450)	187 (624)	242 (809)	301 (1,006)	364 (1,214)	430 (1,435)	430 (1,435)

Drum Capacity (Utility Lifting)

FA2.5i-MR24MK1G	111 (25,000)	13 (1/2)	41 (138)	86 (289)	135 (450)	187 (624)	242 (809)	301 (1,006)	364 (1,214)	430 (1,435)	430 (1,435)
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⁽³⁾ Max storage capacity is tightly wound with no freeboard.

How to Order

FA 2.5i - MR 24 M K 1 - 10GP							
Series	Capacity (lb)	Man Rider®	Drum Length (in)	Drum Brake	Disc Brake	Control	Options
FA Air powered	2.5i 3,180	MR Man Rider®	8 12 16 20 24 std	M Manual drum brake A Auto drum brake	K Disc brake (standard)	1 Std. throttle lever 2xx Remote full flow lever throttle 3xx Remote pilot pendant throttle 4xx Remote pilot lever throttle 5xx Electric over air control xx Specify hose/elec. cord length in ft	10 Drum grooving (specify rope size in sixteenths; e.g., 10 = 10/16" or 5/8") C1M3 -20° C ABS design temperature C2M3 -20° C DNV design temperature E Construction Cage G Drum Guard (standard) J ⁽¹⁾ Air Line Accessories M1 ⁽²⁾ Material Traceability per DIN 50049/EN10204 Para 2.2 "Typicals" M2 ⁽²⁾ Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased M3 ⁽²⁾ Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as delivered in final condition N4 Manufactured under ABS survey N5 Manufactured under DNV survey P Marine 812 finish paint P1 Marine 812-X paint system P2 Marine 812-X paint system - isocyanate free S Rotary limit switch (upper and lower) U Underwound wire rope takeoff V Press Roller W1 ABS witness test W2 DNV witness test W3 LRS witness test W4 Client witness of load test Y Overload protector with E-Stop provided on lever throttle -CE Compliance with the European Machinery Directive and EN14492-1 for power driven winches

NOTE:

- ⁽¹⁾ 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.
- ⁽²⁾ **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).
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- 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).



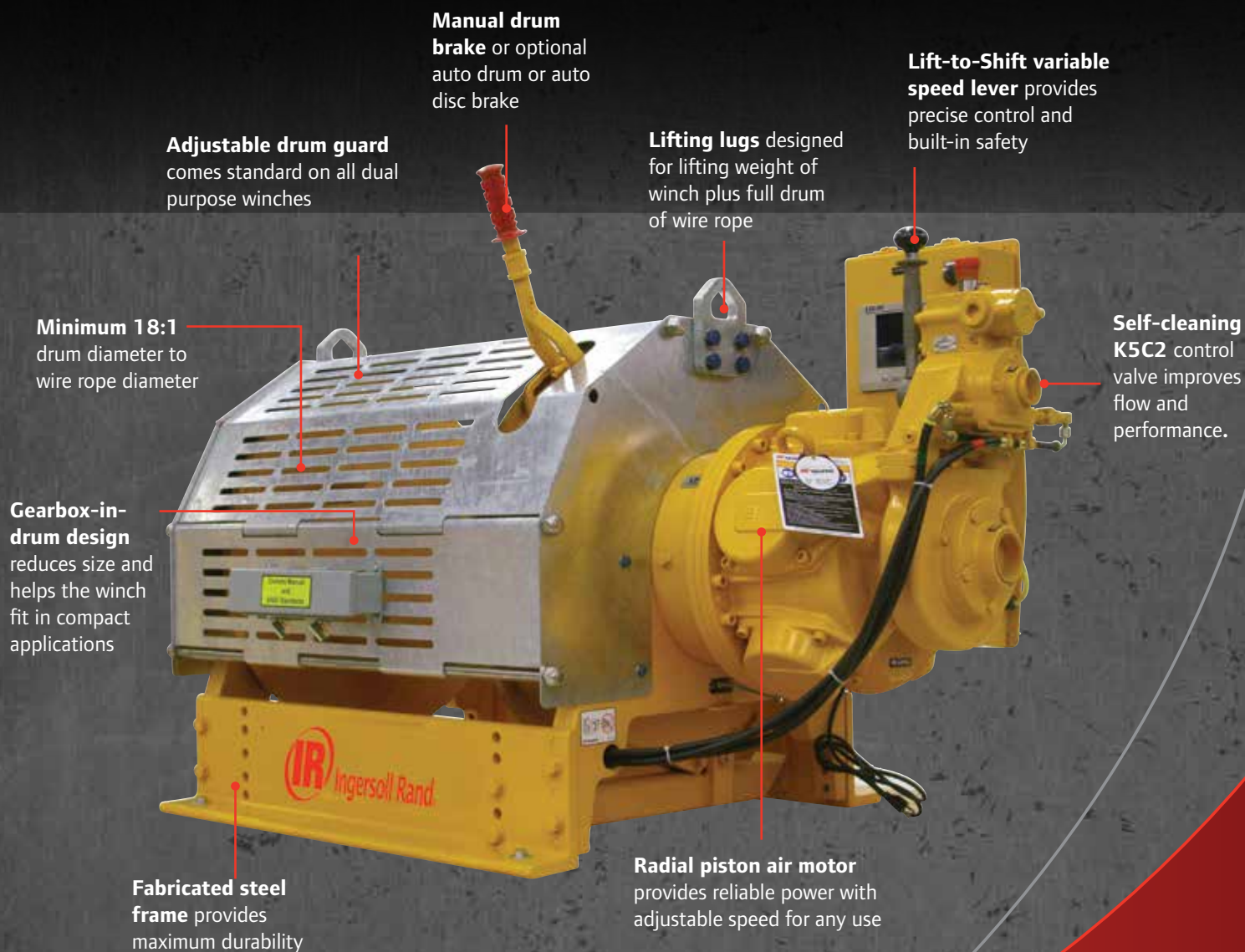
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Infinity FA5i Dual-Purpose Air Winches

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



Ideal for:



Onshore



Offshore



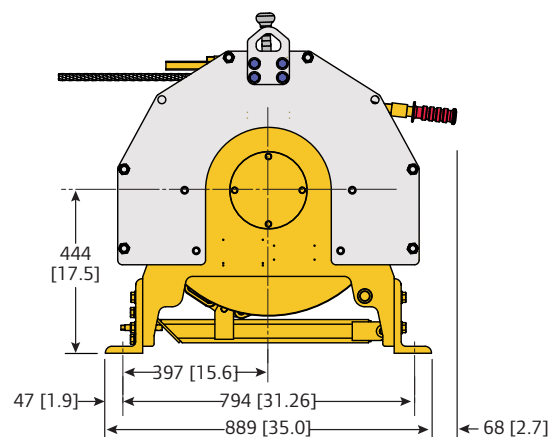
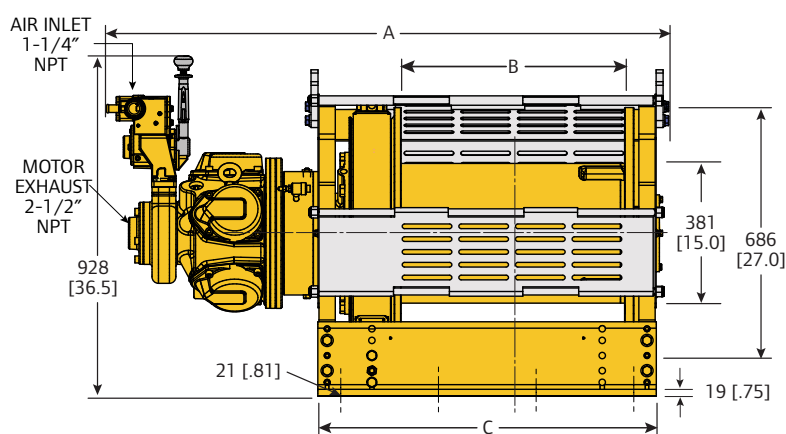
Marine



Infinity FA5i Dual-Purpose Air Winches

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

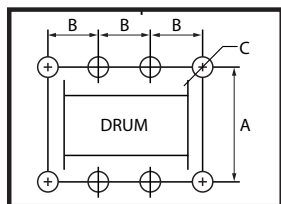
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Dimensions shown are mm. Dimensions in Brackets [] are inches.
Dimensions are subject to change. Contact factory for certified drawings.

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 ³ /min (ft ³ /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 ⁽¹⁾	Recom- mended Rope Diameter	Drum Capacity per Layer ⁽²⁾								Max. Rope Storage Capacity ⁽³⁾
	kN (lbs)	mm (in)	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	m (ft)
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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⁽¹⁾ Recommended minimum breaking force of wire rope based on top layer line pull rating.

⁽²⁾ 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.

⁽³⁾ Max storage capacity is tightly wound with no freeboard.

How to Order

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

NOTE:

⁽¹⁾ 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.

- ⁽²⁾ **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).



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