Third Generation FA2B Air Winches

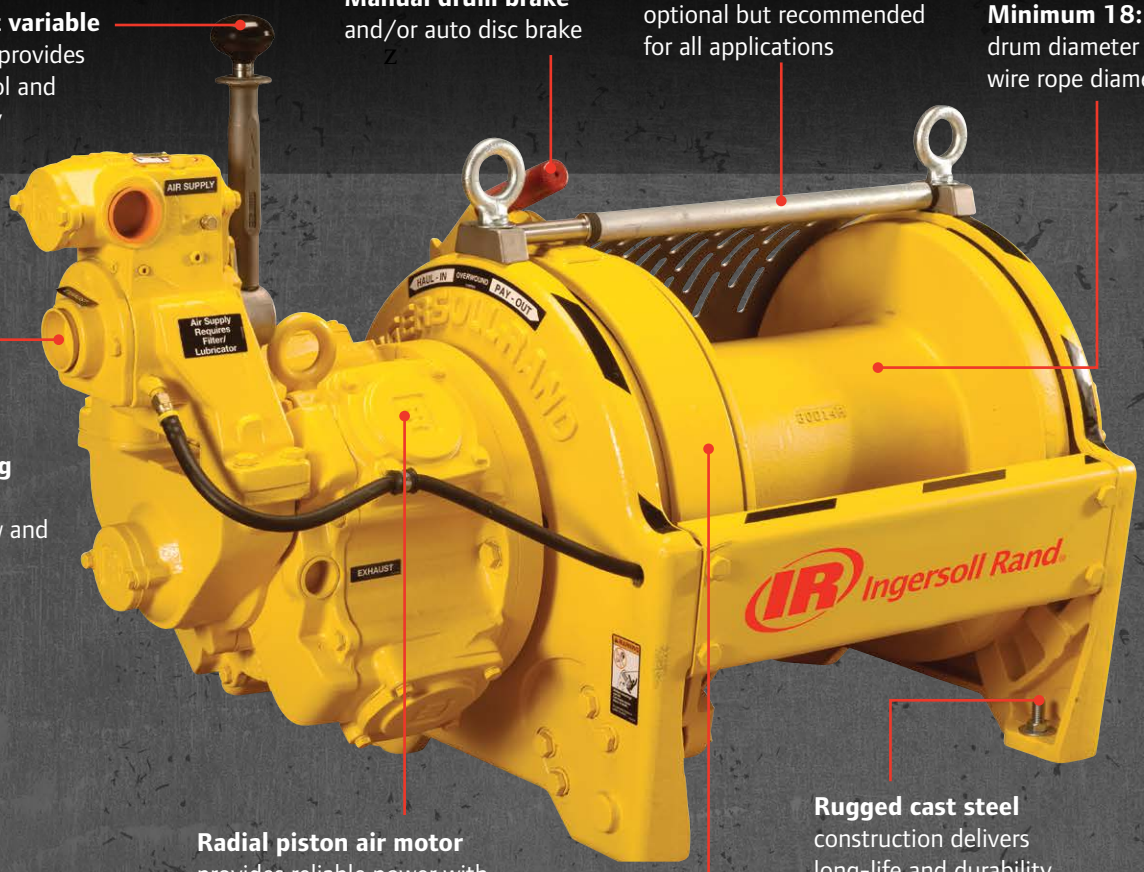
1,450 kg (3,200 lb)

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

Manual drum brake and/or auto disc brake

Adjustable drum guard - optional but recommended for all applications

Minimum 18:1 drum diameter to wire rope diameter



Self-cleaning control valve improves flow and performance

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

Rugged cast steel construction delivers long-life and durability

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

Ideal for:

Onshore

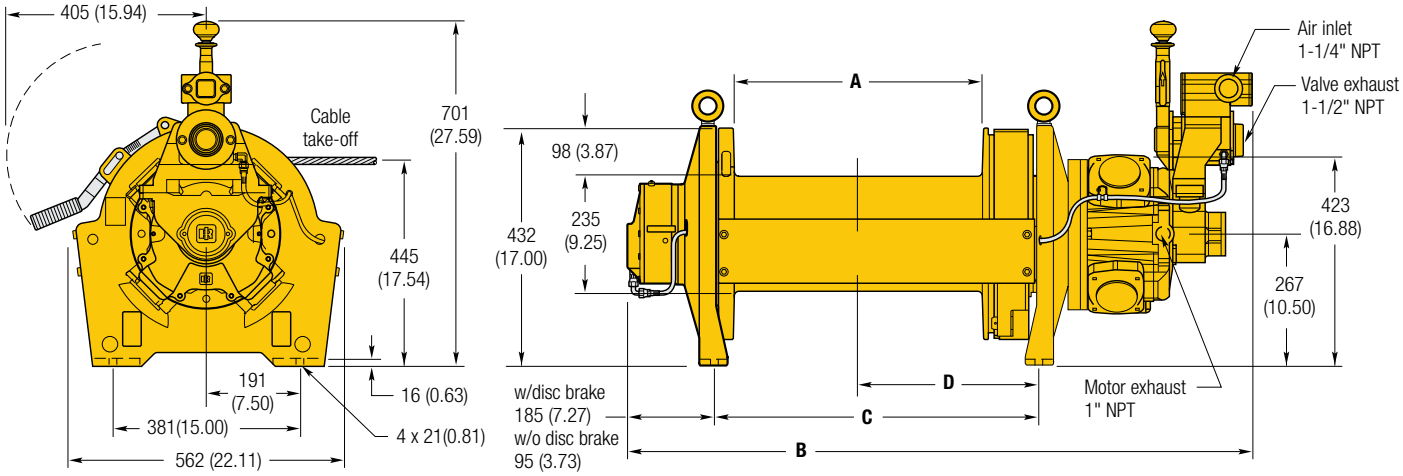
Offshore

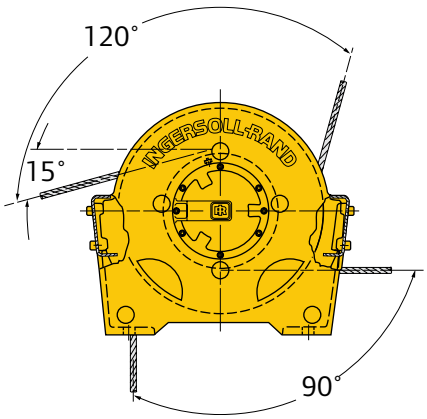
Marine

Third Generation FA2B Air Winches

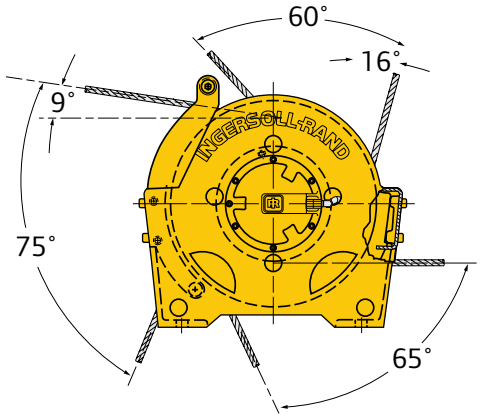
1,450 kg (3,200 lb)

The Ingersoll Rand Third Generation FA2B winch is built to handle whatever you need to throw at it. Made from cast steel and equipped with a powerful radial piston air motor, the FA2B winch is built to lift 1,450 kg (3,200 lbs) in extreme conditions.





Takeoff angle - Standard Configuration



Takeoff angle - Open Frame Option (H)

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

Model	A	B			C		D	
	MX, XK, MK mm (in)	MX mm (in)	XK mm (in)	MK mm (in)	MX, MK mm (in)	XK mm (in)	MX, MK mm (in)	XK mm (in)
FA2B-7**	178 (7.0)	866 (34.1)	881 (34.7)	950 (37.4)	312 (12.3)	244 (9.6)	191 (7.5)	122 (4.8)
FA2B-13**	343 (13.5)	1,008 (39.7)	1,046 (41.2)	1,115 (43.9)	478 (18.8)	409 (16.1)	274 (10.8)	203 (8.0)
FA2B-20**	508 (20.0)	1,173 (46.2)	1,204 (47.4)	1,280 (50.4)	643 (25.3)	574 (22.6)	356 (14.0)	287 (11.3)
FA2BB-24**	610 (24.0)	1,298 (51.1)	1,313 (51.7)	1,382 (54.4)	744 (29.3)	676 (26.6)	406 (16.0)	338 (13.3)

** Indicated brake configuration. **MX**: Manual drum, no auto disc **XK**: No manual drum, auto disc **MK**: Manual drum, auto disc. Dimensions subject to change. Contact factory for certified prints.

Airline Accessories

Construction Cage

Press Roller

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)
FA2B-7**	2,260 (5,000)	1,820 (4,000)	1,450 (3,200)	24 (79)	31 (101)	37 (122)
FA2B-13**	2,260 (5,000)	1,820 (4,000)	1,450 (3,200)	24 (79)	31 (101)	37 (122)
FA2B-20**	2,260 (5,000)	1,820 (4,000)	1,450 (3,200)	24 (79)	31 (101)	37 (122)
FA2B-24**	2,260 (5,000)	1,820 (4,000)	1,450 (3,200)	24 (79)	31 (101)	37 (122)

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)	m^3/min (ft^3/min)	3 m (10 ft)	kg (lb)	dB(A)	kg (lb)
FA2B-7**	12 (16)	37 (122)	10 (350)	0.8 (28.7)	3,084 (6,800)	87	308 (679)
FA2B-13**	12 (16)	37 (122)	10 (350)	0.8 (28.7)	3,084 (6,800)	87	308 (679)
FA2B-20**	12 (16)	37 (122)	10 (350)	0.8 (28.7)	3,084 (6,800)	87	308 (679)
FA2B-24**	12 (16)	37 (122)	10 (350)	0.8 (28.7)	3,084 (6,800)	87	308 (679)

Drum capacity

	Minimum Rope Breaking Force[1]	Recommended Rope Diameter	Drum Capacity per Layer[2] m (ft)							Max. Rope Storage Capacity[3]
Model	kN (lbs)	mm (in)	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	m (ft)
FA2B-7**	71 (16,000)	13 (1/2)	11 (33)	23 (70)	36 (109)	50 (152)	65 (198)	81 (248)	98 (300)	108 (356)
FA2B-13**	71 (16,000)	13 (1/2)	22 (66)	46 (139)	72 (218)	100 (304)	130 (396)	162 (495)	197 (600)	217 (712)
FA2B-20**	71 (16,000)	13 (1/2)	33 (100)	69 (209)	108 (328)	150 (456)	195 (595)	244 (743)	295 (900)	325 (1,068)
FA2B-24**	71 (16,000)	13 (1/2)	39 (120)	83 (252)	130 (395)	180 (550)	235 (717)	294 (895)	356 (1,085)	392 (1,287)

[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" freeboad 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

FA 2 B - 24 M K 1 GP

Series
FA Air Powered

Capacity
2 3,200

Generation
B Fourth Generation

Drum Length (inches)
7
13
20
24 Std

Drum Brake
X No drum brake
M Manual drum brake

Disc Brake
X No auto disc brake
K Disc Brake

Control
1 Std. winch mounted
2xx Remote full flow lever throttle
3xx Remote pilot pendent throttle
xx specify hose length in ft

Options
E Construction cage
F Free spool clutch
G Drum guard
H Open frame for horiz. pulling
J [1] Air Line Accessories
V Press Roller
Y Overload protection with E-Stop provided on lever throttle

[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.

Special Orders

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- 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

Ingersoll Rand

For More Information www.ingersollrandproducts.com/lifting lifting@irco.com

Third Generation FA2.5A Air Winches

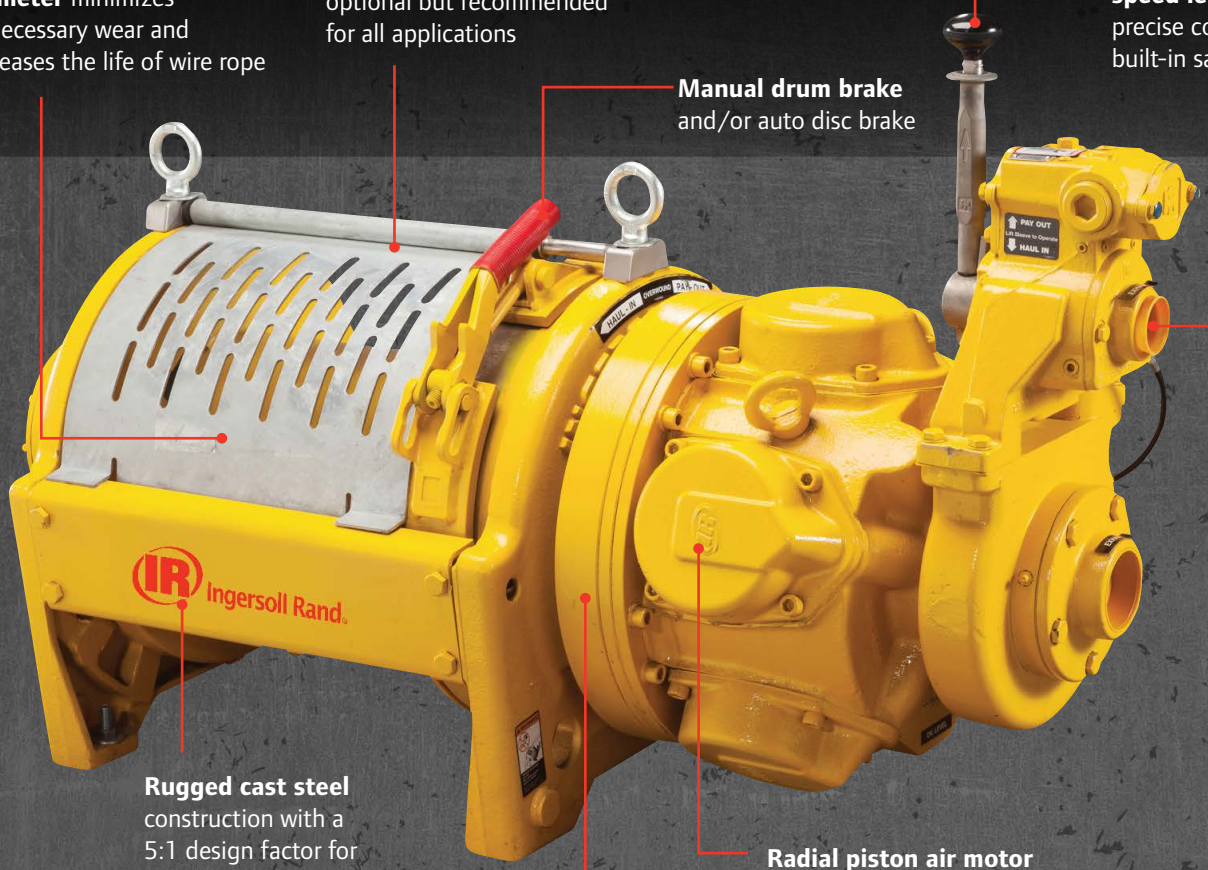
1,860 kg (4,100 lb)

18:1 drum to wire rope diameter minimizes unnecessary wear and increases the life of wire rope

Adjustable drum guard - optional but recommended for all applications

Manual drum brake and/or auto disc brake

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



Self-cleaning control valve for improved flow and performance

Rugged cast steel construction with a 5:1 design factor for long-life and durability

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

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

Ideal for:

Onshore

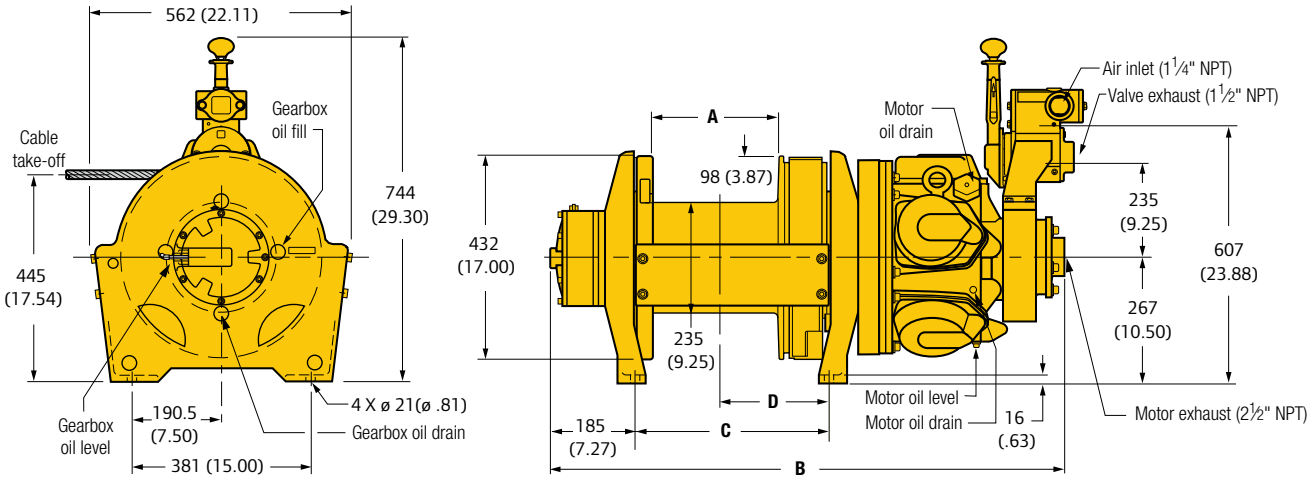
Offshore

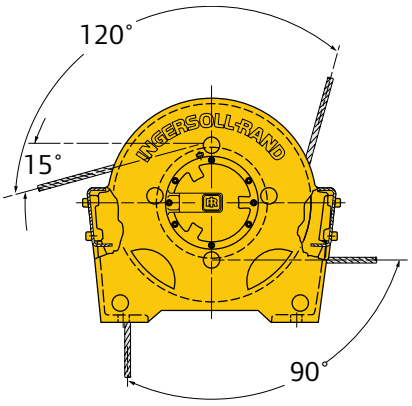
Marine

Third Generation FA2.5A Air Winches

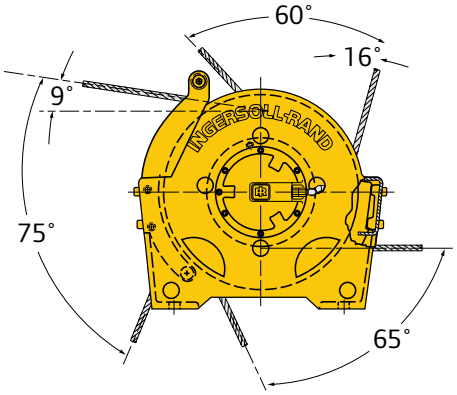
1,860 kg (4,100 lb)

The Ingersoll Rand Force Five FA2.5A winch is a mid range workhorse. It comes with the premium components that make a difference, like a self-cleaning K5C2 control valve and a powerful radial piston air motor. It packages them into a rugged, yet cost effective winch.





Takeoff angle - Standard Configuration



Takeoff angle - Open Front Option (H)

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

Model	A	B			C		D	
	MX, XK, MK mm (in)	MX mm (in)	XK mm (in)	MK mm (in)	MX, MK mm (in)	XK mm (in)	MX, MK mm (in)	XK mm (in)
FA2.5A-7**	178 (7.0)	956 (37.64)	976 (38.44)	1046 (41.19)	313 (12.31)	243 (9.55)	191 (7.50)	121 (4.78)
FA2.5A-13**	343 (13.5)	1,121 (44.14)	1,141 (44.94)	1,211 (47.69)	478 (18.81)	408 (16.05)	274 (10.80)	204 (8.03)
FA2.5A-20**	508 (20.0)	1,286 (50.64)	1,307 (51.44)	1,376 (54.19)	643 (25.31)	573 (22.55)	356 (14.00)	287 (11.28)
FA2.5A-24**	610 (24.0)	1,388 (54.64)	1,408 (55.44)	1,478 (58.19)	744 (29.31)	674 (26.55)	406 (16.00)	337 (13.28)

** Indicated brake configuration. **MX**: Manual drum, no auto disc **XK**: No manual drum, auto disc **MK**: Manual drum, auto disc. Dimensions subject to change. Contact factory for certified prints.

Airline Accessories

Construction Cage

Press Roller

General Performance. Performance based on a 5:1 design factor

Model	Line Pull Capacity First Layer kg (lb)	Mid Drum kg (lb)	Top Layer kg (lb)	Line Speed First Layer m/min (fpm)	Mid Drum m/min (fpm)	Top Layer m/min (fpm)
FA2.5A-7**	2,810 (6,200)	2,270 (5,000)	1,860 (4,100)	28 (92)	35 (114)	43 (141)
FA2.5A-13**	2,810 (6,200)	2,270 (5,000)	1,860 (4,100)	28 (92)	35 (114)	43 (141)
FA2.5A-20**	2,810 (6,200)	2,270 (5,000)	1,860 (4,100)	28 (92)	35 (114)	43 (141)
FA2.5A-24**	2,810 (6,200)	2,270 (5,000)	1,860 (4,100)	28 (92)	35 (114)	43 (141)

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

Model	Motor kW (hp)	Lifting Speed at Top Layer m/min (fpm)	Air Consumption with Rated Load m^3/min (ft^3/min)	Air VolumeNeeded to Move Rated Load at Top Layer 3 m (10 ft)	Stall kg (lb)	Sound Level as per EN 14492-1 dB(A)	Net Weight kg (lb)
FA2.5A-7**	18 (25)	43 (141)	20 (700)	1.4 (49.6)	4,727 (10,400)	87	372 (818)
FA2.5A-13**	18 (25)	43 (141)	20 (700)	1.4 (49.6)	4,727 (10,400)	87	372 (818)
FA2.5A-20**	18 (25)	43 (141)	20 (700)	1.4 (49.6)	4,727 (10,400)	87	372 (818)
FA2.5A-24**	18 (25)	43 (141)	20 (700)	1.4 (49.6)	4,727 (10,400)	87	372 (818)

Drum Capacity

Model	Minimum Rope Breaking Force[1] kN (lbs)	Recommended Rope Diameter mm (in)	Drum Capacity per Layer[2] m (ft) Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Max. Rope Storage Capacity[3] m (ft)
FA2.5A-7**	91 (20,500)	16 (5/8)	8 (26)	17 (56)	27 (89)	38 (124)	50 (164)	63 (206)
FA2.5A-13**	91 (20,500)	16 (5/8)	16 (53)	34 (113)	55 (179)	77 (251)	101 (330)	127 (416)
FA2.5A-20**	91 (20,500)	16 (5/8)	24 (80)	52 (170)	82 (269)	115 (378)	151 (497)	191 (625)
FA2.5A-24**	91 (20,500)	16 (5/8)	30 (97)	62 (205)	99 (325)	139 (456)	183 (600)	230 (754)

[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

FA 2.5 A - 24 M K 1 GP

Series
FA Air Powered

Capacity
2.5 4,100

Generation
A Third Generation

Drum Length (inches)
7
13
20
24 Std

Drum Brake
X No drum brake
M Manual drum brake

Disc Brake
X No auto disc brake
K Disc Brake

Control
1 Std. winch mounted
2xx Remote full flow lever throttle
3xx Remote pilot pendent throttle
xx specify hose length in ft

Options
E Construction cage
F Free spool clutch
G Drum guard
H Open frame for horiz. pulling
J [1] Air Line Accessories
V Press Roller
Y Overload protection with E-Stop provided on lever throttle

[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.

Special Orders

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- 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

For More Information www.ingersollrandproducts.com/lifting lifting@irco.com

Third Generation FA5A Air Winches

3,000 kg (8,000 lb)

Manual drum brake and/or auto disc brake

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

Adjustable drum guard - optional but recommended for all applications

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

Self-cleaning K5C2 control valve improves flow and performance

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

Rugged cast steel construction with a 5:1 design factor for long-life and durability

18:1 drum to wire rope diameter minimizes unnecessary wear and increases the life of wire rope

Ideal for:

Onshore

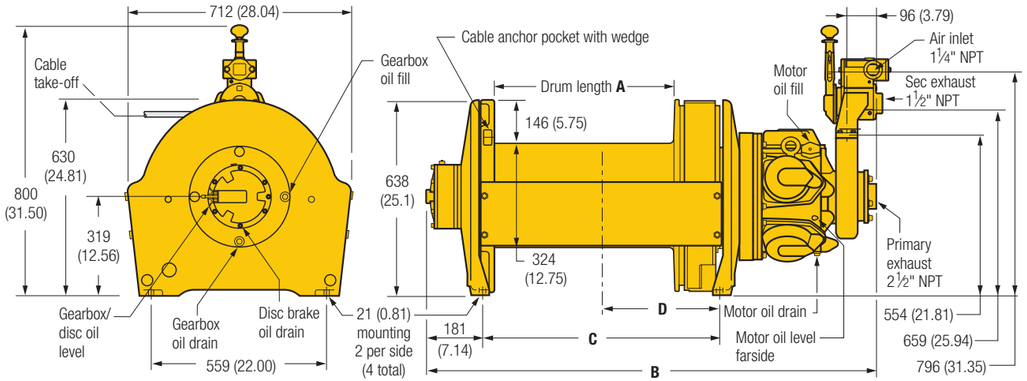
Offshore

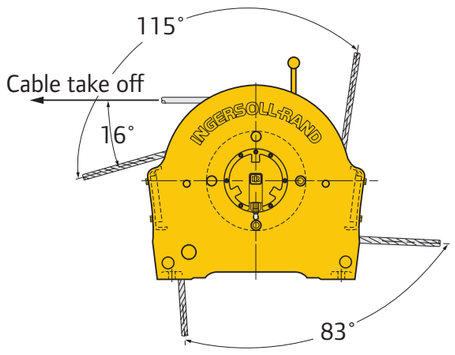
Marine

Third Generation FA5A Air Winches

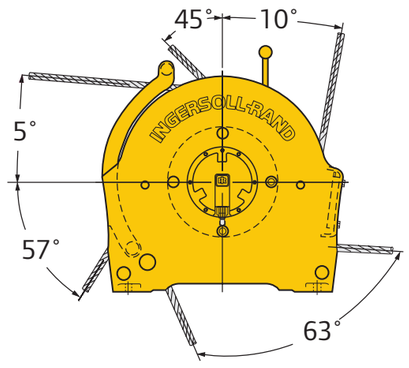
3,600 kg (8,000 lb)

When you need to move a large load, look no further than the Ingersoll Rand Third Generation FA5A winch. It combines a powerful radial piston air motor with thoughtful features like a space-saving gearbox-in-drum design to create an economical winch that still gets the job done.





Takeoff Angle - Standard Configuration



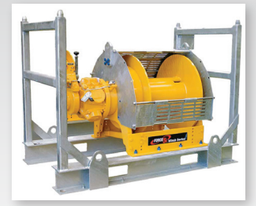
Takeoff Angle - Open Frame Option (H)

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

Model	A	B		C	D	
	MX, XK, MK mm (in)	MX mm (in)	XK, MK mm (in)	MX, MK, XK mm (in)	MX, MK mm (in)	XK mm (in)
FA5A-12**	381 (15.0)	1,092 (43.0)	1,181 (46.5)	454 (17.9)	267 (10.5)	227 (8.9)
FA5A-24**	686 (27.0)	1,397 (55.0)	1,486 (58.5)	759 (29.9)	419 (16.5)	379 (14.9)

** Indicated brake configuration. **MX**: Manual drum, no auto disc **XK**: No manual drum, auto disc **MK**: Manual drum, auto disc. Dimensions subject to change. Contact factory for certified prints.

Airline Accessories



Construction Cage

Press Roller

General Performance. Performance based on a 5:1 design factor

Model	Line Pull Capacity First Layer kg (lb)	Line Pull Capacity Mid Drum kg (lb)	Line Pull Capacity Top Layer kg (lb)	Line Speed First Layer m/min (fpm)	Line Speed Mid Drum m/min (fpm)	Line Speed Top Layer m/min (fpm)
FA5A-12**	5,890 (13,000)	4,540 (10,000)	3,600 (8,000)	12 (38)	13 (41)	13 (43)
FA5A-24**	5,890 (13,000)	4,540 (10,000)	3,600 (8,000)	12 (38)	13 (41)	13 (43)

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

Model	Motor kW (hp)	Lifting Speed at Top Layer m/min (fpm)	Air Consumption with Rated Load m^3/min (ft^3/min)	Air Volume Needed to Move Rated Load at Top Layer 3 m (10 ft)	Stall kg (lb)	Sound Level as per EN 4492-1 dB(A)	Net Weight kg (lb)
FA5A-12**	18 (25)	13 (43)	20 (700)	4.6 (162.8)	7,727 (17,000)	89	569 (1,254)
FA5A-24**	18 (25)	13 (43)	20 (700)	4.6 (162.8)	7,727 (17,000)	89	569 (1,254)

Drum capacity

Model	Minimum Rope Breaking Force[1] kN (lbs)	Recommended rope diameter mm (in)	Drum Capacity per Layer[2] m (ft) Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Max. Rope Storage Capacity[3] m (ft)
FA5A-12**	177 (40,000)	20 (3/4)	16 (53)	34 (112)	54 (176)	75 (246)	98 (321)	123 (402)	149 (489)	177 (581)
FA5A-24**	177 (40,000)	20 (3/4)	34 (110)	70 (231)	111 (363)	155 (508)	202 (663)	253 (831)	308 (1,010)	366 (1,200)

[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

FA 5 A - 24 M K 1 G

Series
FA Air Powered

Capacity
5 8,000

Generation
A Third Generation

Drum Length (inches)
12
24

Drum Brake
X No drum brake
M Manual drum brake

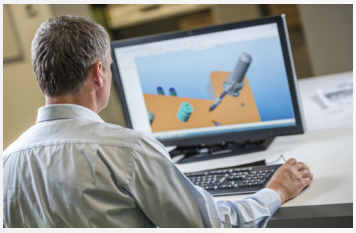
Disc Brake
X No auto disc brake
K Disc Brake

Control
1 Std. winch mounted
2xx Remote full flow lever throttle
3xx Remote pilot pendent throttle
xx specify hose length in ft

Options
E Construction cage
F Free spool clutch
G Drum guard
H Open frame for horiz. pulling
J[1] Air Line Accessories
V Press Roller
Y Overload protection with E-Stop provided on lever throttle

[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.

Special Orders



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- Onsite services available including presale evaluation, installation and maintenance

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IRCO.com

Ingersoll Rand (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is committed to helping make life better. We provide innovative and mission-critical industrial, energy, medical and specialty vehicle products and services across 40+ respected brands designed to excel in even the most complex and harsh conditions where downtime is especially costly. Our employees connect to customers for life by delivering proven expertise, productivity and efficiency improvements.

We are committed to using environmentally conscious print practices.

Third Generation Dual Purpose Air Winches

920-3,600 kg (2,035-8,000 lb)

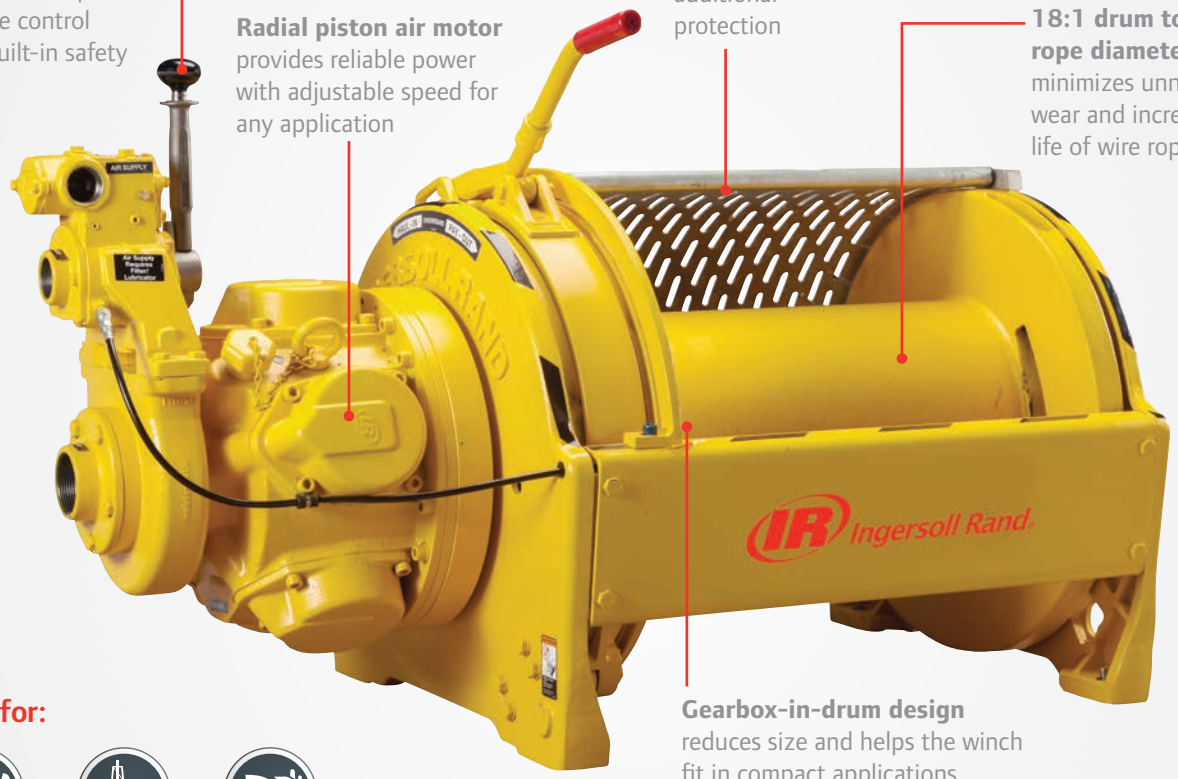
Ingersoll Rand Dual Purpose winches are designed to maximize the use of your equipment. They combine the time-tested, rugged durability of our standard Third Generation winches with enhanced safety features for lifting personnel. In environments where dedicated Man Rider® winches are not required, Ingersoll 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.

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

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

Drum guard included for additional protection

18:1 drum to wire rope diameter minimizes unnecessary wear and increases the life of wire rope



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

Ideal for:

Onshore | Offshore | Marine

Personnel Lifting Ratings at 8:1 design factor and performance at 6.3 bar (90 psi) at air inlet when winch is operating								
	Rated Capacity at Top Layer	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	Drum Capacity[1]		Net Weight
Model	kg (lb)	m/min (fpm)	m^3/min (ft^3/min)	3 m (10 ft)	dB(A)	Rope Length m (ft)	Rope Diameter mm (in)	kg (lb)
FA2BMR24MK1G	920 (2,035)	62 (202)	10.0 (350)	0.5 (17.3)	87	392 (1287)	13 (1/2)	357 (786)
FA2.5AMR24MK1G	1,420 (3,125)	58 (191)	20.0 (700)	1.0 (36.6)	87	392 (1287)	13 (1/2)	411 (905)
FA5AMR24MK1G	2,280 (5,035)	41 (136)	20.0 (700)	1.5 (51.5)	89	366 (1200)	20 (3/4)	837 (1842)
Utility Lifting Ratings at 5:1 design factor and performance at 6.3 bar (90 psi) at air inlet when winch is operating								
FA2BMR24MK1G	1,450 (3,200)	37 (122)	10.0 (350)	0.8 (28.7)	87	392 (1287)	13 (1/2)	357 (786)
FA2.5AMR24MK1G	1,860 (4,100)	43 (141)	20.0 (700)	1.4 (49.6)	87	392 (1287)	13 (1/2)	411 (905)
FA5AMR24MK1G	3,600 (8,000)	13 (43)	20.0 (700)	4.6 (162.8)	89	366 (1200)	20 (3/4)	837 (1842)

[1] Wire rope is tightly wound with no freeboard.