



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:



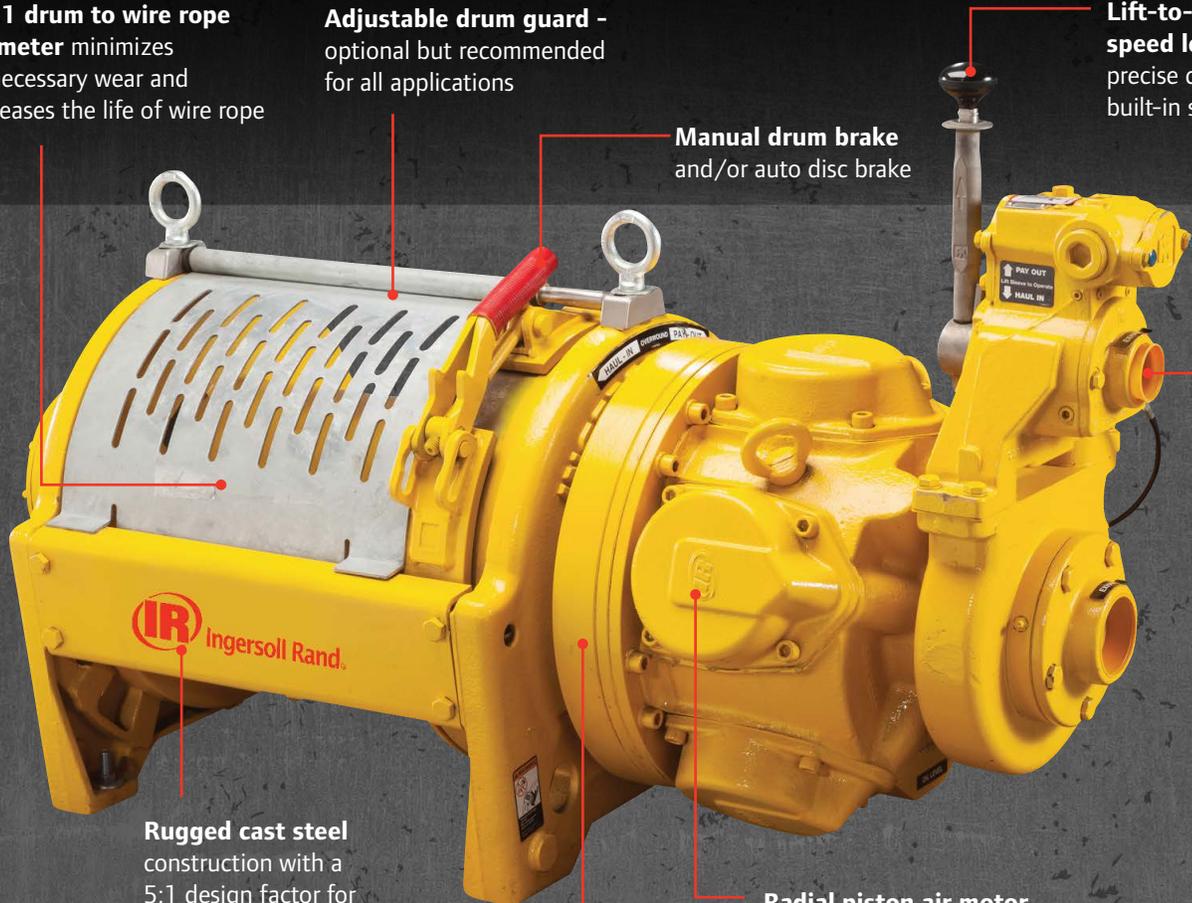
Onshore



Offshore



Marine

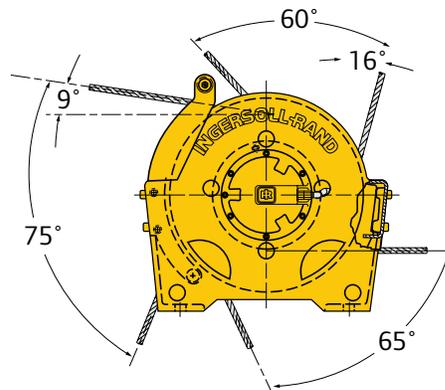
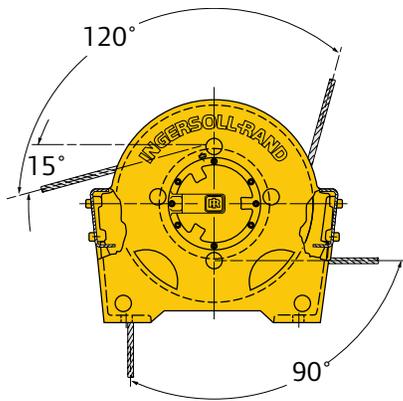
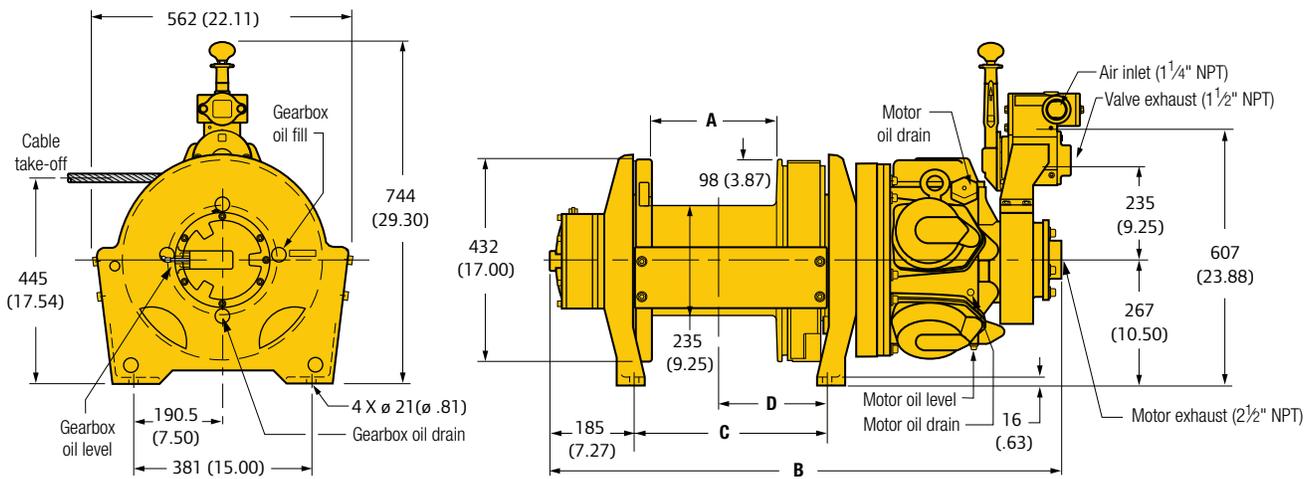




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The Ingersoll Rand Force Five FA2.5A winch is a mid range workhorse. It comes with the premium components that make a difference, like a self-cleaning K5C2 control valve and a powerful radial piston air motor. It packages them into a rugged, yet cost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



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			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)
FA2.5A-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	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
	kW (hp)	m/min (fpm)	m ³ /min (ft ³ /min)	3 m (10 ft)	kg (lb)	dB(A)	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

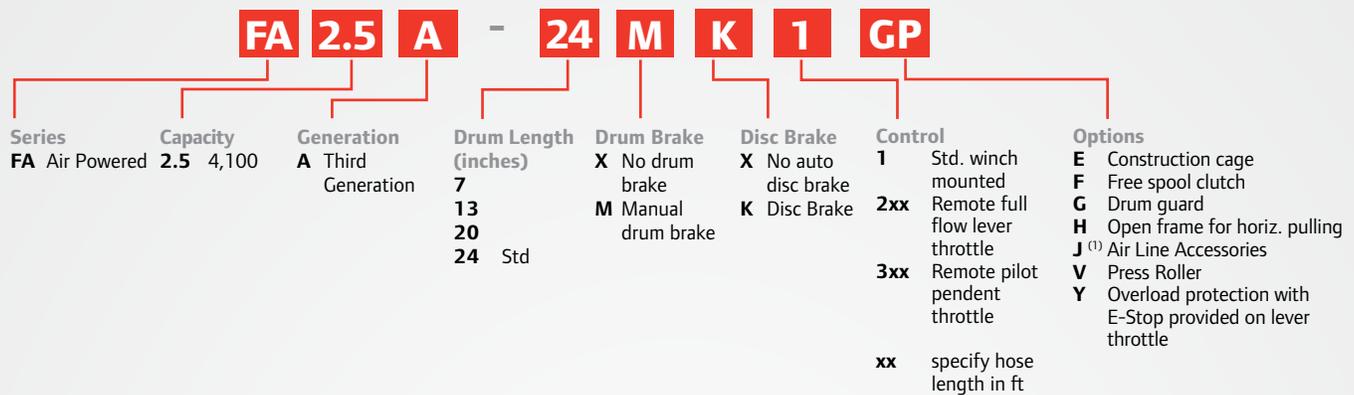
Model	Minimum Rope Breaking Force ⁽¹⁾ kN (lbs)	Recommended Rope Diameter mm (in)	Drum Capacity per Layer ⁽²⁾ m (ft)					Max. Rope Storage Capacity ⁽³⁾ m (ft)
			Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	
FA2.5A-7**	91 (20,500)	16 (5/8)	8 (26)	17 (56)	27 (89)	38 (124)	50 (164)	63 (206)
FA2.5A-13**	91 (20,500)	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



⁽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



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.

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- 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
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