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.

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

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

Manual drum brake and/or auto disc brake.

Self-cleaning control valve for improved flow and performance.

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.

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

<table>
<thead>
<tr>
<th>Model</th>
<th>A (MX mm)</th>
<th>B (XK mm)</th>
<th>C (MK mm)</th>
<th>D (XK mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2.5A-7**</td>
<td>178 (7.0)</td>
<td>956 (37.64)</td>
<td>976 (38.44)</td>
<td>1046 (41.19)</td>
</tr>
<tr>
<td>FA2.5A-13**</td>
<td>343 (13.5)</td>
<td>1,121 (44.14)</td>
<td>1,141 (44.94)</td>
<td>1,211 (47.69)</td>
</tr>
<tr>
<td>FA2.5A-20**</td>
<td>508 (20.0)</td>
<td>1,286 (50.64)</td>
<td>1,307 (51.44)</td>
<td>1,376 (54.19)</td>
</tr>
<tr>
<td>FA2.5A-24**</td>
<td>610 (24.0)</td>
<td>1,388 (54.64)</td>
<td>1,408 (55.44)</td>
<td>1,478 (58.19)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>First Layer kg (lb)</th>
<th>Mid Drum kg (lb)</th>
<th>Top Layer kg (lb)</th>
<th>First Layer m/min (fpm)</th>
<th>Mid Drum m/min (fpm)</th>
<th>Top Layer m/min (fpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2.5A-7**</td>
<td>2,810 (6,200)</td>
<td>2,270 (5,000)</td>
<td>1,860 (4,100)</td>
<td>28 (92)</td>
<td>35 (114)</td>
<td>43 (141)</td>
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### General Characteristics. Performance at 6.3 bar (90 psi) air inlet pressure with the motor running

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor kW (hp)</th>
<th>Lifting Speed m/min (fpm)</th>
<th>Air Consumption m³/min (ft³/min)</th>
<th>Air Volume Needed to Move Rated Load 3 m (10 ft) kg (lbs)</th>
<th>Stall Sound Level dB(A)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2.5A-7**</td>
<td>18 (25)</td>
<td>43 (141)</td>
<td>20 (700)</td>
<td>1.4 (49.6) 4,727 (10,400) 87</td>
<td>372 (818)</td>
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### Drum Capacity

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

(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

**Series**
- FA

**Capacity**
- 2.5
- 4,100

**Generation**
- A
- Third Generation

**Drum Length (inches)**
- 7
- 13
- 20
- 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 Remote full flow lever throttle
- 2xx Remote pilot pendent throttle
- 3xx specify hose length in ft

**Options**
- E Construction cage
- F Free spool clutch
- G Drum guard
- H Open frame for horiz. pulling
- J 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

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.

- 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  
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lifting@irco.com