Third Generation FA5A Air Winches
3,000 kg (8,000 lb)

Ideal for:

- Onshore
- Offshore
- Marine

- 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
- Gearbox-in-drum design reduces size and helps the winch fit in compact applications
- Self-cleaning KSC2 control valve improves flow and performance
- Radial piston air motor provides reliable power with adjustable speed for any application
- 18:1 drum to wire rope diameter minimizes unnecessary wear and increases the life of wire rope
- Rugged cast steel construction with a 5:1 design factor for long-life and durability
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 air motor with thoughtful features like a space-saving gearbox-in-drum design to create an economical winch that still gets the job done.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>FA5A-12**</td>
<td>5,890 (13,000)</td>
<td>4,540 (10,000)</td>
<td>3,600 (8,000)</td>
</tr>
<tr>
<td>FA5A-24**</td>
<td>5,890 (13,000)</td>
<td>4,540 (10,000)</td>
<td>3,600 (8,000)</td>
</tr>
</tbody>
</table>

**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>Motor Lifting Speed at Top Layer m/min (fpm)</th>
<th>Air Consumption with Rated Load m³/min (cfm)</th>
<th>Air Volume Needed to Move Rated Load at Top Layer m³ (ft³)</th>
<th>Stall Sound Level as per EN 4492-1 dB(A)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA5A-12**</td>
<td>18 (25)</td>
<td>13 (43)</td>
<td>20 (700)</td>
<td>4.6 (162.8)</td>
<td>7,727 (17,000)</td>
<td>89</td>
</tr>
<tr>
<td>FA5A-24**</td>
<td>18 (25)</td>
<td>13 (43)</td>
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<td>4.6 (162.8)</td>
<td>7,727 (17,000)</td>
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</tbody>
</table>

**Drum Capacity**

Minimum Rope Breaking Force (lbs)

<table>
<thead>
<tr>
<th>Model</th>
<th>Minimum Rope Breaking Force (lbs)</th>
<th>Greatest Recommended Rope Diameter in (in)</th>
<th>Drum Capacity per Layer(^{11}) in (lbs)</th>
<th>Max. Rope String Capacity(^{12}) in (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA5A-12**</td>
<td>177 (40,000)</td>
<td>28 (3/4)</td>
<td>16 (1/2)</td>
<td>57 (2.2)</td>
</tr>
<tr>
<td>FA5A-24**</td>
<td>177 (40,000)</td>
<td>34 (1 1/4)</td>
<td>70 (2.8)</td>
<td>111 (4.3)</td>
</tr>
</tbody>
</table>

\(^{11}\) Recommended minimum breaking force of wire rope based on top layer line pull rating.

\(^{12}\) 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.

\(^{13}\) Max storage capacity is tightly wound with no freeboard.
How to Order

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 pendant 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 Disc Brake
K 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

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.

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