Third Generation FA2B Air Winches

1,450 kg (3,200 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

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

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Third Generation FA2B Air Winches

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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.

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, XK, MK mm</th>
<th>B MX mm</th>
<th>XK mm</th>
<th>MK mm</th>
<th>C MX, MK mm</th>
<th>XK mm</th>
<th>D MX, MK mm</th>
<th>XK mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2B-7**</td>
<td>178 (7.0)</td>
<td>866 (34.1)</td>
<td>881 (34.7)</td>
<td>950 (37.4)</td>
<td>312 (12.3)</td>
<td>244 (9.6)</td>
<td>191 (7.5)</td>
<td>122 (4.8)</td>
</tr>
<tr>
<td>FA2B-13**</td>
<td>343 (13.5)</td>
<td>1,008 (39.7)</td>
<td>1,046 (41.2)</td>
<td>1,115 (43.9)</td>
<td>478 (18.8)</td>
<td>409 (16.1)</td>
<td>274 (10.8)</td>
<td>203 (8.0)</td>
</tr>
<tr>
<td>FA2B-20**</td>
<td>508 (20.0)</td>
<td>1,173 (46.2)</td>
<td>1,204 (47.4)</td>
<td>1,280 (50.4)</td>
<td>643 (25.3)</td>
<td>574 (22.6)</td>
<td>356 (14.0)</td>
<td>287 (11.3)</td>
</tr>
<tr>
<td>FA2B-24**</td>
<td>610 (24.0)</td>
<td>1,298 (51.1)</td>
<td>1,313 (51.7)</td>
<td>1,382 (54.4)</td>
<td>744 (29.3)</td>
<td>676 (26.6)</td>
<td>406 (16.0)</td>
<td>338 (13.3)</td>
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</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>
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<tr>
<td>FA2B-7**</td>
<td>2,260 (5,000)</td>
<td>1,820 (4,000)</td>
<td>1,450 (3,200)</td>
<td>24 (79)</td>
<td>31 (101)</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 at Top Layer m/min (fpm)</th>
<th>Air Consumption with Rated Load m³/min (ft³/min)</th>
<th>Air Volume Needed to Move Rated Load at Top Layer m³ (10 ft)</th>
<th>Stall kg (lb)</th>
<th>Sound Level as per EN 14492-1 dB(A)</th>
<th>Net Weight kg (lb)</th>
</tr>
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<tr>
<td>FA2B-7**</td>
<td>12 (16)</td>
<td>37 (122)</td>
<td>10 (350)</td>
<td>0.8 (28.7)</td>
<td>3,084 (6,800)</td>
<td>87</td>
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## Drum capacity

### Minimum Rope Breaking Force(1)

<table>
<thead>
<tr>
<th>Model</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>Layer 6</th>
<th>Layer 7</th>
<th>Max. Rope Storage Capacity(2) m (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2B-7**</td>
<td>13 (1/2)</td>
<td>11 (33)</td>
<td>23 (70)</td>
<td>36 (109)</td>
<td>50 (152)</td>
<td>65 (198)</td>
<td>81 (248)</td>
<td>98 (300)</td>
<td>108 (356)</td>
</tr>
<tr>
<td>FA2B-13**</td>
<td>13 (1/2)</td>
<td>22 (66)</td>
<td>46 (139)</td>
<td>72 (218)</td>
<td>100 (304)</td>
<td>130 (396)</td>
<td>162 (495)</td>
<td>197 (600)</td>
<td>217 (712)</td>
</tr>
<tr>
<td>FA2B-20**</td>
<td>13 (1/2)</td>
<td>33 (100)</td>
<td>69 (209)</td>
<td>108 (328)</td>
<td>150 (456)</td>
<td>195 (595)</td>
<td>244 (743)</td>
<td>295 (900)</td>
<td>325 (1,068)</td>
</tr>
<tr>
<td>FA2B-24**</td>
<td>13 (1/2)</td>
<td>39 (120)</td>
<td>83 (252)</td>
<td>130 (395)</td>
<td>180 (550)</td>
<td>235 (717)</td>
<td>294 (895)</td>
<td>356 (1,085)</td>
<td>392 (1,287)</td>
</tr>
</tbody>
</table>

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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

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 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  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  www.ingersollrandproducts.com/lifting  lifting@irco.com

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