Infinity FA5i Dual-Purpose Air Winches

3,123-5,000 kg (6,870-11,000 lb)

- Adjustable drum guard comes standard on all dual purpose winches
- Lift-to-Shift variable speed lever provides precise control and built-in safety
- Manual drum brake or optional auto drum or auto disc brake
- Lifting lugs designed for lifting weight of winch plus full drum of wire rope
- Self-cleaning K5C2 control valve improves flow and performance.
- Gearbox-in-drum design reduces size and helps the winch fit in compact applications
- Fabricated steel frame provides maximum durability
- Radial piston air motor provides reliable power with adjustable speed for any use

Ideal for:
- Onshore
- Offshore
- Marine
Infinity FA5i Dual-Purpose Air Winches

3,123-5,000 kg (6,870-11,000 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 Infinity 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.

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**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 (mm/in)</th>
<th>B (mm/in)</th>
<th>C (mm/in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA5i-MR12MK1G</td>
<td>1,209 (47.6)</td>
<td>305 (12)</td>
<td>617 (24.3)</td>
</tr>
<tr>
<td>FA5i-MR16MK1G</td>
<td>1,311 (51.6)</td>
<td>406 (16)</td>
<td>719 (28.3)</td>
</tr>
<tr>
<td>FA5i-MR20MK1G</td>
<td>1,412 (55.6)</td>
<td>508 (20)</td>
<td>820 (32.3)</td>
</tr>
<tr>
<td>FA5i-MR24MK1G</td>
<td>1,514 (59.6)</td>
<td>610 (24)</td>
<td>922 (36.3)</td>
</tr>
<tr>
<td>FA5i-MR30MK1G</td>
<td>1,666 (65.6)</td>
<td>762 (30)</td>
<td>1,074 (42.3)</td>
</tr>
<tr>
<td>FA5i-MR36MK1G</td>
<td>1,819 (71.6)</td>
<td>914 (36)</td>
<td>1,227 (48.3)</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Model</th>
<th>Bolt Down “A” Dimension</th>
<th>Bolt Down “B” Dimension</th>
<th>Bolt Down “C” Dimension</th>
<th># of Bolt Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA5i-MR12MK1G</td>
<td>794 (31.26)</td>
<td>191 (7.5)</td>
<td>21 (0.81)</td>
<td>6</td>
</tr>
<tr>
<td>FA5i-MR16MK1G</td>
<td>794 (31.26)</td>
<td>229 (9.0)</td>
<td>21 (0.81)</td>
<td>6</td>
</tr>
<tr>
<td>FA5i-MR20MK1G</td>
<td>794 (31.26)</td>
<td>254 (10.0)</td>
<td>21 (0.81)</td>
<td>8</td>
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<td>FA5i-MR24MK1G</td>
<td>794 (31.26)</td>
<td>267 (10.5)</td>
<td>21 (0.81)</td>
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<td>FA5i-MR36MK1G</td>
<td>794 (31.26)</td>
<td>279 (11.0)</td>
<td>21 (0.81)</td>
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</tbody>
</table>
### General Performance (Personnel Lifting). Performance based on a 8:1 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>
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<tbody>
<tr>
<td>FA5i-MR24MK1G</td>
<td>4,760 (10,490)</td>
<td>3,940 (8,680)</td>
<td>3,123 (6,870)</td>
<td>19 (61)</td>
<td>21 (68)</td>
<td>23 (75)</td>
</tr>
</tbody>
</table>

### General Performance (Utility Lifting). 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>
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<th>Top Layer m/min (fpm)</th>
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<tbody>
<tr>
<td>FA5i-MR24MK1G</td>
<td>7,620 (16,800)</td>
<td>6,310 (13,900)</td>
<td>5,000 (11,000)</td>
<td>16 (51)</td>
<td>16 (52)</td>
<td>16 (54)</td>
</tr>
</tbody>
</table>

### General Characteristics (Personnel Lifting). 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 at Top Layer 3 m (10 ft)</th>
<th>Sound Level as per EN 14492-1 dB(A)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA5i-MR24MK1G</td>
<td>18.7 (25)</td>
<td>23 (75)</td>
<td>20 (700)</td>
<td>2.6 (93.3)</td>
<td>97</td>
<td>907 (2,000)</td>
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### General Characteristics (Utility Lifting). Performance at 6.3 bar (90 psi) air inlet pressure with the motor running

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### Drum Capacity (Personnel Lifting)

<table>
<thead>
<tr>
<th>Model</th>
<th>Minimum Rope Breaking Force kN (lbs)</th>
<th>Recommended Rope Diameter mm (in)</th>
<th>Drum Capacity per Layer m (ft)</th>
<th>Max. Rope Storage Capacity m (ft)</th>
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<tbody>
<tr>
<td>FA5i-MR24MK1G</td>
<td>244 (54,960)</td>
<td>19 (3/4)</td>
<td>29 (128)</td>
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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 5i - MR 24 M K 1 10GP

Series
FA 5i
Air powered

Capacity (lb)
6,870

Man Rider
MR Man Rider

Drum Length (in)
12
16
20
24 std
30
36

Drum Brake
M Manual drum brake
A Auto drum brake

Disc Brake
K Disc brake (standard)

Control
1 Std. throttle lever
2xx Remote full flow lever throttle
3xx Remote pilot lever throttle
4xx Remote pilot lever throttle
5xx Electric over air control

Options
10 Drum grooving (specify rope size in sixteenths; e.g., 10 = 10/16" or 5/8")

C1M3 -20˚ C ABS design temperature
C2M3 -20˚ C DNV design temperature

E Construction Cage
J Air Line Accessories
M Material Traceability per DIN 50049/EN10204 Para 2.2

“Typicals”

M2 Material Traceability per DIN 50049/EN10204 Para 3.1b actuals as purchased

N4 Manufactured under ABS survey
N5 Manufactured under DNV survey
P Marine 812 finish paint
P1 Marine 812-X paint system
P2 Marine 812-X paint system - isocyanate free

S Rotary limit switch (upper and lower)
U Underwound wire rope takeoff
V Press Roller
W1 ABS witness test
W2 DNV witness test
W3 LRS witness test
W4 Client witness of load test

Y Overload protector with E-Stop provided on lever throttle

-CE Compliance with the European Machinery Directive and EN14492-1 for power driven winches

NOTE:
(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.

(2) M1 – Material traceability certificates according to EN 10204 (Ex DIN 50049) 2.2 on load bearing parts. This conformity document affirms (by the manufacturer) that parts are in compliance with the requirements of the order based on non-specific inspection and testing (i.e., results are typical material properties for these parts).

M2 – Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e., results are actual material properties for those parts).

M3 – Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e., results are actual material properties for those parts in a finished, as delivered condition).