Man Rider® and Personnel Lifting Winches

Dedicated 150 kg (330 lb)
Dual Purpose 920-5,000 kg (2,035-11,000 lb)
When Tough Just Isn’t Enough

*Dedicated 150 kg (330 lb) and*  
*Dual Purpose 920-5,000 kg (2,035-11,000 lb) Air Winches*

Since 1924, Ingersoll Rand has built extremely durable and reliable winches and hoists. Designed to work in harsh environments and built using rugged cast iron and steel, Ingersoll Rand doesn’t take shortcuts and never uses inferior components. Ingersoll Rand Man Rider® and dual purpose winches are specifically designed to minimize the risks of lifting people. They meet strict safe-lifting standards and include features to help ensure the safety of workers. Ingersoll Rand pioneered the development of Man Rider® and dual purpose winches and has provided thousands of them over 30 years. This experience is built into every Man Rider® winch we sell. Trust Ingersoll Rand Man Rider® and dual purpose winches to help you protect your most precious asset, your people.

**Ingersoll Rand Man Rider® and Dual Purpose Lifting Winches:**

- Multiple safety systems to help keep your personnel safe
- Rugged cast iron and steel construction for extreme durability
- Stainless steel components and marine grade paint for corrosion resistance
- Variable speed levers for precise control and built-in safety
- Easy configuration to meet worldwide standards and 3rd party type approvals
- Individual load testing before shipment with manufacturer’s test certificate
- 30 years of experience designing and building thousands of Man Rider® winches that operate in the world’s toughest environments
- High quality manufacturing in ISO 9001 level advanced facilities

**Special Orders**

A significant portion of our business is providing customized solutions for specific applications. We recognize that not all jobs are created equal and that the most cost-effective solutions may not be in an off-the-shelf item. We’ve designed and manufactured winches and hoists for applications as simple as moving bags of lettuce, to as intricate as installing critical payloads on space vehicles, including high capacity loads 100 tons and above.

- Design for custom capacities
- Custom control systems
- Custom product modifications
- Witness testing and complete certification to most global standards
- Full data package with CAD drawings
- Dedicated project management for your project from conception to delivery
- Onsite services available including presale and evaluation

**For More Information**

[www.ingersollrandproducts.com/lifting](http://www.ingersollrandproducts.com/lifting)  
lifting@irco.com
MR150 Dedicated Man Rider® Air Winch
150 kg (330 lb)

Ingersoll Rand MR150 Man Rider® winches are specifically designed to minimize the risks of lifting people. MR150 winches combine our decades of experience building personnel lifting winches with the best features of our time-proven designs into one premium Man Rider winch. MR150 winches meet or exceed strict safe-lifting standards to help ensure the safety of workers. Trust Ingersoll Rand MR150 Man Rider winches to help you protect your people.

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**General Performance and Characteristics at 90 psi (6.2 bar) inlet pressure**

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>Rated Capacity at Top Layer (kg lb)</th>
<th>Line Speed m/min (fpm)</th>
<th>Max. Rope Storage Capacity 5 layers (w/10 mm rope) m (ft)</th>
<th>Working Rope Storage Capacity 2nd Layer (w/10 mm rope) m (ft)</th>
<th>Drum Length mm (in)</th>
<th>Air Consumption with Rated Load m³/min (ft³/min)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR150K Gear Air Motor</td>
<td>150 (330)</td>
<td>30 (98)</td>
<td>180 (591)</td>
<td>55 (180)</td>
<td>300 (11.8)</td>
<td>2.5 (88)</td>
<td>210 (465)</td>
</tr>
</tbody>
</table>

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*(1) Wire rope is tightly wound with no freeboard.
LS2-150 Hydraulic Offshore Man Rider®
150 kg (330 lb)

The Ingersoll Rand LS2-150 Hydraulic Offshore Man Rider® features a tough, full-stainless steel enclosure that protects moving parts and marine grade paint to stand up to the harsh environments found offshore.

Overload Protection senses when tension exceeds capacity and prevents operation

Automatically with Multi-Disc Brake and Automatic Drum Brake provide the safety of two independent braking systems

Compact Slack Line Prevention System automatically stops the winch from paying out in case of slack wire

Helical grooved drum ensures better rope spooling than plain drum

Press Roller presses the wire rope onto the drum to improve winding, especially in no-load conditions

Chassis skid incorporates a drip pan for offshore application

Built In Emergency Lowering And Lifting System lowers a rider in case of power failure

Stainless Steel enclosure protects parts and provides superior corrosion resistance for offshore environments.

Ideal for:
- Offshore
- Onshore
- Marine

Lifting Ratings at 10:1 design factor and performance at 105 bar (1,800 psi) inlet pressure

<table>
<thead>
<tr>
<th>Model</th>
<th>Line Pull Capacity</th>
<th>Lifting Speed at Top Layer</th>
<th>Operating Pressure</th>
<th>Max Flow with Rated Load</th>
<th>Max Drum Capacity</th>
<th>Rope Diameter</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS2-150HLP-L (offshore)</td>
<td>150 (330)</td>
<td>150 (330)</td>
<td>150 (330)</td>
<td>30 (98)</td>
<td>105 (1,523)</td>
<td>10 (2.64)</td>
<td>154 (505)</td>
</tr>
</tbody>
</table>

(1) Wire rope is tightly wound with no freeboard.
LS2-150 Hydraulic Land Rig Man Rider®
150 kg (330 lb)

The Ingersoll Rand LS2-150 Hydraulic Land Rig Man Rider® is designed as a cost-effective solution for lifting people on land rigs. It's built-in safety features and rugged construction make this a durable winch no matter where your land rig operates.

Operator Orientation
Cover ensures proper operation of the winch

Enclosed
Controls for protection from the elements and inadvertent operation

Easily Adjustable
Upper and Lower Limit Switches prevent raising or lowering past set limits

Two Automatic Brakes
for maximum rider protection and safety

Slack Line Prevention System automatically stops the winch from paying out in case of slack wire

Helical Grooved Drum assists with wire rope spooling

Press Roller presses the wire rope onto the drum to improve winding, especially in no-load conditions

Easily Accessible Bolt Points for quick and simple installation

Ideal for:
- Offshore
- Onshore
- Marine

Lifting Ratings at 10:1 design factor and performance at 105 bar (1,800 psi) inlet pressure

<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>Lifting Speed at Top Layer m/min (f/fpm)</th>
<th>Operating Pressure bar (psi)</th>
<th>Max Flow with Rated Load l/min (gal/min)</th>
<th>Max Drum Capacity m (ft)</th>
<th>Rope Diameter mm (in)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS2-150HLR-L (onshore)</td>
<td>150 (330)</td>
<td>150 (330)</td>
<td>150 (330)</td>
<td>30 (98)</td>
<td>105 (1,523)</td>
<td>10 (2.64)</td>
<td>154 (505)</td>
<td>10 (3/8)</td>
<td>370 (816)</td>
</tr>
</tbody>
</table>

(1) Wire rope is tightly wound with no freeboard.
Infinity Dual Purpose Air Winches
1,445-5,000 kg (3,180-11,000 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.

### Personnel Lifting Ratings at 8:1 design factor and performance at 6.3 bar (90 psi) at air inlet when winch is operating

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Capacity at Top Layer</th>
<th>Lifting Speed at Top Layer</th>
<th>Air Consumption with Rated Load</th>
<th>Air Volume Needed to Move Rated Load at Top Layer</th>
<th>Sound Level as per EN 14492-1</th>
<th>Drum Capacity(1)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2i-MR24MK1G</td>
<td>1,445 (3,180)</td>
<td>23 (75)</td>
<td>8 (280)</td>
<td>1.0 (37.3)</td>
<td>87</td>
<td>430 (1,435)</td>
<td>13 (1/2)</td>
</tr>
<tr>
<td>FA2.5i-MR24MK1G</td>
<td>1,445 (3,180)</td>
<td>53 (173)</td>
<td>20 (700)</td>
<td>1.1 (40.5)</td>
<td>97</td>
<td>430 (1,435)</td>
<td>13 (1/2)</td>
</tr>
<tr>
<td>FA5i-MR24MK1G</td>
<td>3,123 (6,870)</td>
<td>23 (75)</td>
<td>20 (700)</td>
<td>2.6 (93.3)</td>
<td>97</td>
<td>410 (1,346)</td>
<td>20 (3/4)</td>
</tr>
</tbody>
</table>

### Utility Lifting Ratings at 5:1 design factor and performance at 6.3 bar (90 psi) at air inlet when winch is operating

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Capacity at Top Layer</th>
<th>Lifting Speed at Top Layer</th>
<th>Air Consumption with Rated Load</th>
<th>Air Volume Needed to Move Rated Load at Top Layer</th>
<th>Sound Level as per EN 14492-1</th>
<th>Drum Capacity(1)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2i-MR24MK1G</td>
<td>2,000 (4,400)</td>
<td>16 (51)</td>
<td>8 (280)</td>
<td>1.5 (54.9)</td>
<td>87</td>
<td>430 (1,435)</td>
<td>13 (1/2)</td>
</tr>
<tr>
<td>FA2.5i-MR24MK1G</td>
<td>2,273 (5,000)</td>
<td>40 (132)</td>
<td>20 (700)</td>
<td>1.5 (53.0)</td>
<td>97</td>
<td>430 (1,435)</td>
<td>13 (1/2)</td>
</tr>
<tr>
<td>FA5i-MR24MK1G</td>
<td>5,000 (11,000)</td>
<td>16 (54)</td>
<td>20 (700)</td>
<td>3.8 (129.6)</td>
<td>97</td>
<td>410 (1,346)</td>
<td>20 (3/4)</td>
</tr>
</tbody>
</table>

(1) Wire rope is tightly wound with no freeboard.

**Ideal for:**

- Onshore
- Offshore
- Marine

Adjustable drum guard comes standard on all dual purpose winches

Minimum 18:1 drum diameter to wire rope diameter

Gearbox-in-drum design reduces size and helps the winch fit in compact applications

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

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

Self-cleaning K5C2 control valve improves flow and performance.

Radial piston air motor provides reliable power with adjustable speed for any use

Fabricated steel frame provides maximum durability

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.
Ingersoll Rand Dual Purpose winches are designed to maximize the use of your equipment. They combine the time-tested, rugged durability of our standard Third Generation 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.

### Personnel Lifting Ratings at 8:1 design factor and performance at 6.3 bar (90 psi) at air inlet when winch is operating

<table>
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<tr>
<th>Model</th>
<th>Rated Capacity at Top Layer</th>
<th>Lifting Speed at Top Layer</th>
<th>Air Consumption with Rated Load</th>
<th>Air Volume Needed to Move Rated Load at Top Layer</th>
<th>Sound Level (as per EN 14492-1)</th>
<th>Drum Capacity (asc)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2BMR24MK1G</td>
<td>920 (2,035)</td>
<td>62 (202)</td>
<td>10.0 (350)</td>
<td>0.5 (17.3)</td>
<td>87</td>
<td>392 (1287)</td>
<td>357 (786)</td>
</tr>
<tr>
<td>FA2.5AMR24MK1G</td>
<td>1,420 (3,125)</td>
<td>58 (191)</td>
<td>20.0 (700)</td>
<td>1.0 (36.6)</td>
<td>87</td>
<td>392 (1287)</td>
<td>411 (905)</td>
</tr>
<tr>
<td>FA5AMR24MK1G</td>
<td>2,280 (5,035)</td>
<td>41 (136)</td>
<td>20.0 (700)</td>
<td>1.5 (51.5)</td>
<td>89</td>
<td>366 (1200)</td>
<td>837 (1842)</td>
</tr>
</tbody>
</table>

### Utility Lifting Ratings at 5:1 design factor and performance at 6.3 bar (90 psi) at air inlet when winch is operating

<table>
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<tr>
<th>Model</th>
<th>Rated Capacity at Top Layer</th>
<th>Lifting Speed at Top Layer</th>
<th>Air Consumption with Rated Load</th>
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<th>Drum Capacity (asc)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2BMR24MK1G</td>
<td>1,450 (3,200)</td>
<td>37 (122)</td>
<td>10.0 (350)</td>
<td>0.8 (28.7)</td>
<td>87</td>
<td>392 (1287)</td>
<td>357 (786)</td>
</tr>
<tr>
<td>FA2.5AMR24MK1G</td>
<td>1,860 (4,100)</td>
<td>43 (141)</td>
<td>20.0 (700)</td>
<td>1.4 (49.6)</td>
<td>87</td>
<td>392 (1287)</td>
<td>411 (905)</td>
</tr>
<tr>
<td>FA5AMR24MK1G</td>
<td>3,600 (8,000)</td>
<td>13 (43)</td>
<td>20.0 (700)</td>
<td>4.6 (162.8)</td>
<td>89</td>
<td>366 (1200)</td>
<td>837 (1842)</td>
</tr>
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1 Wire rope is tightly wound with no freeboard.
Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a $12 billion global business committed to a world of sustainable progress and enduring results.

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Unless otherwise noted this equipment is not designed for transporting people or lifting loads over people. It is the user’s responsibility to determine the suitability of this product for any particular use and to check compliance with applicable regulations. Before installation, see maintenance and operations manual for additional warnings and precautions.

Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Ingersoll Rand’s standard terms and conditions of sale for such products, which are available upon request.

Product improvement is a continuing goal at Ingersoll Rand. Designs and specifications are subject to change without notice or obligation.
Liftstar Dedicated Man Rider® Hydraulic Winches

150 kg (330 lb)

**LS2-150 Hydraulic Offshore Man Rider®**

The Ingersoll Rand LS2-150 Hydraulic Offshore Man Rider® features a tough, full-stainless steel enclosure that protects moving parts and marine grade paint to stand up to the harsh environments found offshore.

**Emergency stop** and built-in overload device for safe operation

**Slack Line Prevention** System automatically stops the winch from paying out in case of slack wire

**Automatic Multi-Disc Brake and Automatic Drum Brake** provide the safety of two independent braking systems

**Helical grooved drum** ensures better rope spooling than plain drum

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**Press Roller** presses the wire rope onto the drum to improve winding, especially in no-load conditions

**Upper and lower limit switches** to limit rider travel

**Chassis skid** incorporates a drip pan for offshore application

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<th>Operating Speed at Top Layer m/min (f/fpm)</th>
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<th>Max Flow with Rated Load 1/l/min (gal/min)</th>
<th>Max Drum Capacity m (ft)</th>
<th>Rope Diameter mm (in)</th>
<th>Net Weight kg (lb)</th>
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<tr>
<td>LS2-150HLP-L (offshore)</td>
<td>150 (330)</td>
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<td>150 (330)</td>
<td>30 (98)</td>
<td>105 (1,523)</td>
<td>10 (2.64)</td>
<td>154 (505)</td>
<td>10 (3/8)</td>
<td>380 (838)</td>
</tr>
<tr>
<td>LS2-150HLR-L (onshore)</td>
<td>150 (330)</td>
<td>150 (330)</td>
<td>150 (330)</td>
<td>30 (98)</td>
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<td>10 (2.64)</td>
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(1) Wire rope is tightly wound with no freeboard

**LS2-150 Hydraulic Land Rig Man Rider®**

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**Two automatic brakes** for maximum rider protection and safety

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