



# Man Rider<sup>®</sup> 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)

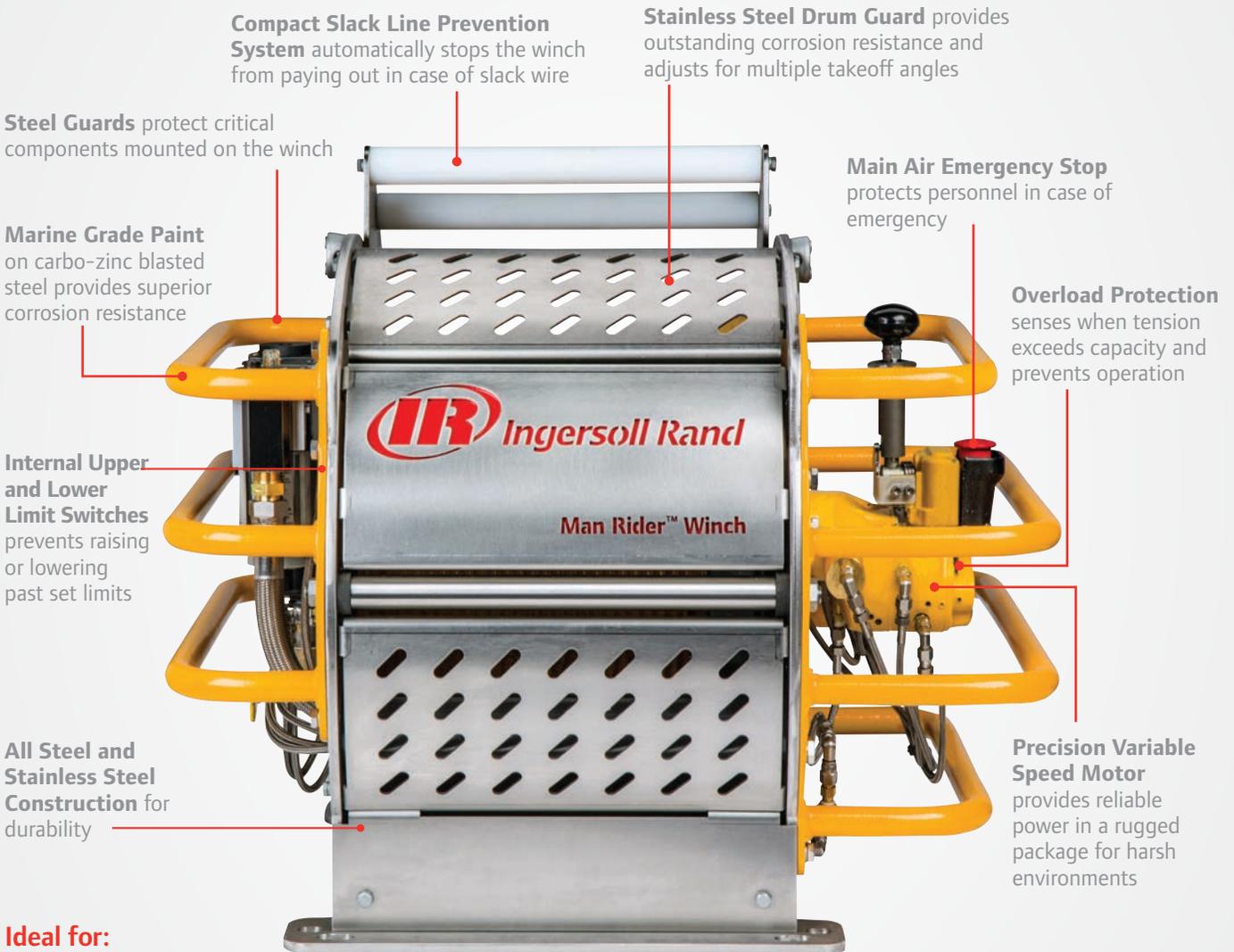


[lifting@irco.com](mailto:lifting@irco.com)

# 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.



**Ideal for:**



Offshore



Onshore



Marine



General Performance and Characteristics at 90 psi (6.2 bar) inlet pressure								
Motor Type	Rated Capacity at Top Layer		Line Speed m/min (fpm)	Max. Rope Storage Capacity	Working Rope Storage Capacity	Drum Length mm (in)	Air Consumption with Rated Load m <sup>3</sup> /min (ft <sup>3</sup> /min)	Net Weight kg (lb)
	2nd Layer kg (lb)	5 layers (w/10 mm rope) m (ft)		2nd Layer (w/10 mm rope) m (ft)				
MR150K Gear Air Motor	150 (330)	180 (591)	30 (98)	180 (591)	55 (180)	300 (11.8)	2.5 (88)	210 (465)

<sup>(1)</sup> 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.



## Ideal for:



Offshore



Onshore



Marine

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

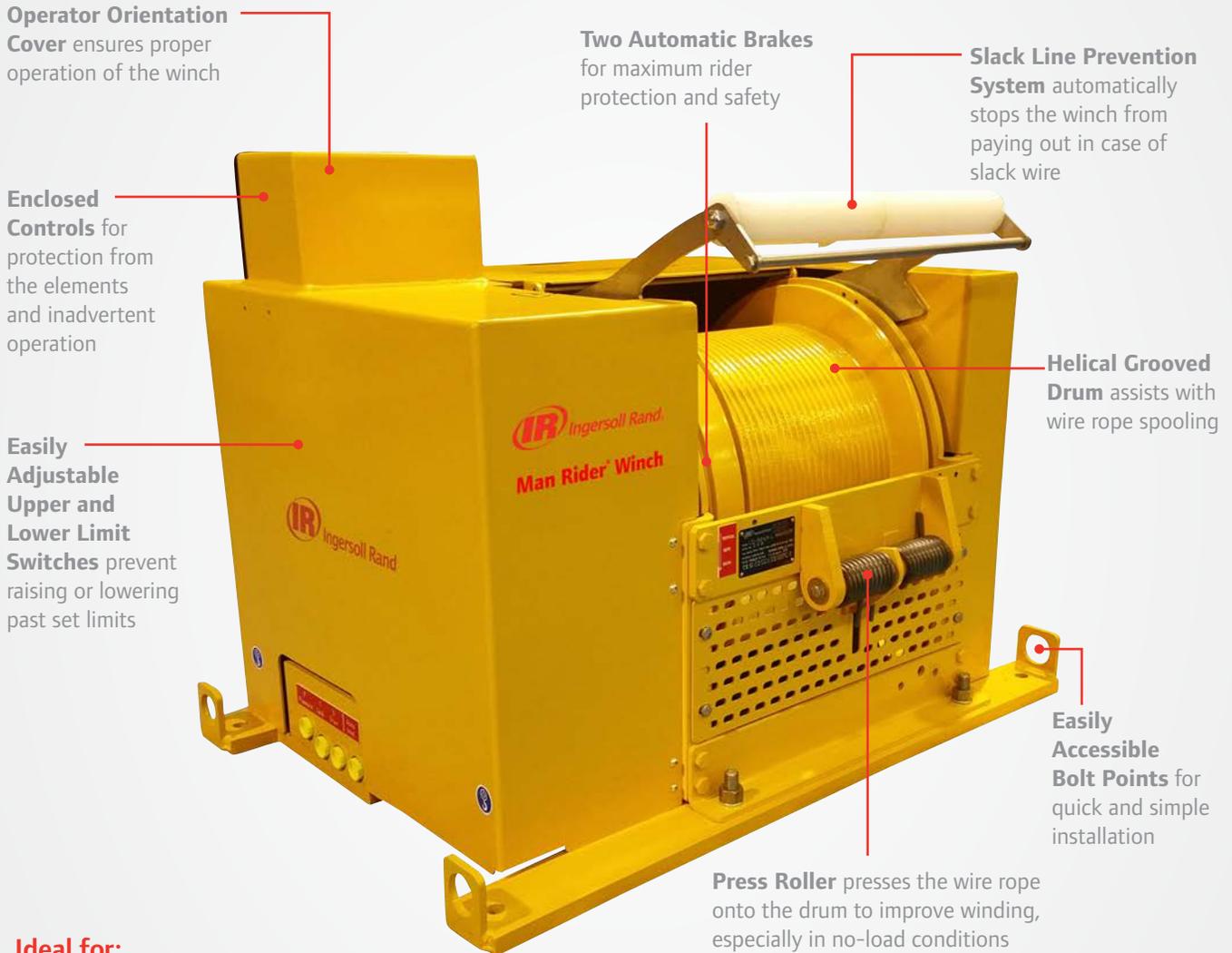
Model	Line Pull Capacity			Lifting Speed at Top Layer	Operating Pressure	Max Flow with Rated Load	Max Drum Capacity	Rope Diameter	Net Weight
	First Layer kg (lb)	Mid Drum kg (lb)	Top Layer kg (lb)	m/min (f/fpm)	bar (psi)	l/min (gal/min)	m (ft)	mm (in)	kg (lb)
LS2-150HLP-L (offshore)	150 (330)	150 (330)	150 (330)	30 (98)	105 (1,523)	10 (2.64)	154 (505)	10 (3/8)	380 (838)

<sup>(1)</sup> 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.



**Ideal for:**



Offshore



Onshore



Marine

Lifting Ratings at 10:1 design factor and performance at 105 bar (1,800 psi) inlet pressure									
Model	Line Pull Capacity			Lifting Speed at Top Layer	Operating Pressure	Max Flow with Rated Load	Max Drum Capacity	Rope Diameter	Net Weight
	First Layer kg (lb)	Mid Drum kg (lb)	Top Layer kg (lb)	m/min (f/fpm)	bar (psi)	l/min (gal/min)	m (ft)	mm (in)	kg (lb)
LS2-150HLR-L (onshore)	150 (330)	150 (330)	150 (330)	30 (98)	105 (1,523)	10 (2.64)	154 (505)	10 (3/8)	370 (816)

<sup>(1)</sup> 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

Model	Rated Capacity at Top Layer	Lifting Speed at Top Layer	Air Consumption with Rated Load	Air Volume Needed to Move Rated Load at Top Layer	Sound Level as per EN 14492-1	Drum Capacity <sup>(1)</sup>		Net Weight
	kg (lb)	m/min (fpm)	m <sup>3</sup> /min (ft <sup>3</sup> )	3 m (10 ft)		Length m (ft)	Rope Diameter mm (in)	
FA2i-MR24MK1G	1,445 (3,180)	23 (75)	8 (280)	1.0 (37.3)	87	430 (1,435)	13 (1/2)	420 (925)
FA2.5i-MR24MK1G	1,445 (3,180)	53 (173)	20 (700)	1.1 (40.5)	97	430 (1,435)	13 (1/2)	574 (1,265)
FA5i-MR24MK1G	3,123 (6,870)	23 (75)	20 (700)	2.6 (93.3)	97	410 (1,346)	20 (3/4)	907 (2,000)

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

FA2i-MR24MK1G	2,000 (4,400)	16 (51)	8 (280)	1.5 (54.9)	87	430 (1,435)	13 (1/2)	420 (925)
FA2.5i-MR24MK1G	2,273 (5,000)	40 (132)	20 (700)	1.5 (53.0)	97	430 (1,435)	13 (1/2)	574 (1,265)
FA5i-MR24MK1G	5,000 (11,000)	16 (54)	20 (700)	3.8 (129.6)	97	410 (1,346)	20 (3/4)	907 (2,000)

<sup>(1)</sup> Wire rope is tightly wound with no freeboard.

# Third Generation Dual Purpose Air Winches

920-3,600 kg (2,035-8,000 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 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.



Ideal for:



Onshore



Offshore



Marine

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

Model	Rated Capacity at Top Layer	Lifting Speed at Top Layer	Air Consumption with Rated Load	Air Volume Needed to Move Rated Load at Top Layer	Sound Level as per EN 14492-1	Drum Capacity <sup>(1)</sup>		Net Weight
	kg (lb)	m/min (fpm)	m <sup>3</sup> /min (ft <sup>3</sup> /min)	3 m (10 ft)		Rope Length m (ft)	Rope Diameter mm (in)	
FA2BMR24MK1G	920 (2,035)	62 (202)	10.0 (350)	0.5 (17.3)	87	392 (1287)	13 (1/2)	357 (786)
FA2.5AMR24MK1G	1,420 (3,125)	58 (191)	20.0 (700)	1.0 (36.6)	87	392 (1287)	13 (1/2)	411 (905)
FA5AMR24MK1G	2,280 (5,035)	41 (136)	20.0 (700)	1.5 (51.5)	89	366 (1200)	20 (3/4)	837 (1842)

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

FA2BMR24MK1G	1,450 (3,200)	37 (122)	10.0 (350)	0.8 (28.7)	87	392 (1287)	13 (1/2)	357 (786)
FA2.5AMR24MK1G	1,860 (4,100)	43 (141)	20.0 (700)	1.4 (49.6)	87	392 (1287)	13 (1/2)	411 (905)
FA5AMR24MK1G	3,600 (8,000)	13 (43)	20.0 (700)	4.6 (162.8)	89	366 (1200)	20 (3/4)	837 (1842)

<sup>(1)</sup> 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.



[www.ingersollrandproducts.com](http://www.ingersollrandproducts.com)

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# 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

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

**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

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

Built in emergency lowering and lifting device

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

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

### Ideal for:



Offshore



Onshore



Marine

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

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.

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

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



**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

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

Model	Line Pull Capacity			Lifting Speed at Top Layer	Operating Pressure	Max Flow with Rated Load	Max Drum Capacity	Rope Diameter	Net Weight
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