

Product Features and Specifications

FA2.5i-MR Infinity Series Winch - Capacity: 3,180 lbs (1 445 kg)

PFS-FA2.5i-MR-09072010

Ingersoll Rand's offering of dedicated and dual purpose (utility & personnel lifting) Man Rider™ winches are known worldwide as the standard for meeting the toughest personnel lifting requirements in the industry.

These rugged, oilfield tough winches have Type Approval or Independent Review certificates issued by the classification societies of ABS or DNV.

Features

Lifting and Lowering People on Offshore Drilling Rigs and Platforms

Whether it is a dedicated Man Rider™ for lifting people in harnesses or boatswain's chairs, or lifting people and then lifting material, Ingersoll Rand has a winch for the application.

Meeting world standards. Certified to those standards.

Drilling rigs and platforms are used all over the world and come under numerous and diverse regulations. Ingersoll Rand builds to regional and global specifications and our winches are certified by Det Norske Veritas (DNV), and the American Bureau of Shipping (ABS).

Type Approval

A comprehensive design review by a third party addresses intended service, applications, ratings, design calculations, load bearing components, product specifications, and service restrictions or limitations. Plant surveys verify quality control procedures. A **Type Approval** certificate is then issued.



FA2.5i-MR with optional -CE Package

What makes a winch a Man Rider™

Minimum design factors of 8:1. Dual Brakes. Drum Guards. Type Approval Certs and Data Books upon request (when requested at time of order). And, depending on where in the world it will be used, may include additional options such as: - CE certification, overload device, slack wire detector, limit switch, emergency shut-off, emergency lowering device and spooling device.



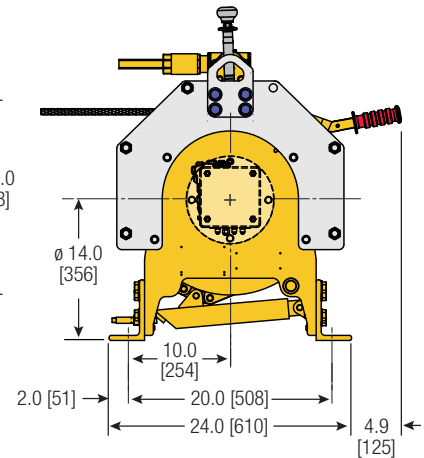
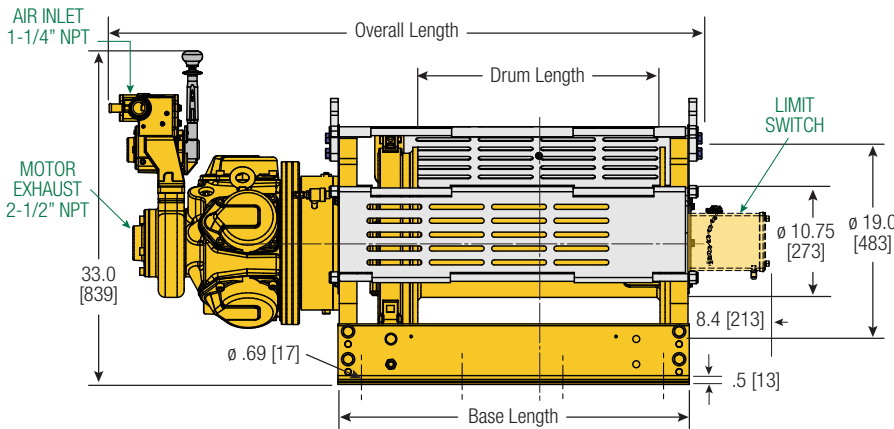
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Industrial Technologies

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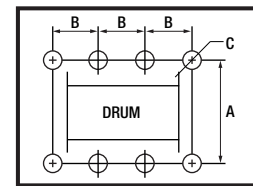
FA2.5i-MR12MK1G
FA2.5i-MR24MK1G
 with disc and manual brake

Dimensions shown are inches.
 Dimensions in Brackets [] are mm.
 Dimensions are subject to change.
 Contact factory for certified drawings.

Dimensions: FA2.5i-MR and Bolt Down Pattern

	Drum Length 12" [305 mm]		Drum Length 24" [610 mm]	
	in	mm	in	mm
Overall Length	45.8	1163	58.0	1473
Base Length	22.8	579	34.8	884
'A'	20.0	508	20.0	508
'B'	9.0	229	10.0	254
'C'	0.69	18	0.69	18
Total # Holes	6		8	

Bolt Down Pattern



'C' = Bolt Hole Inside Diameter

Man Rider™ Lift Ratings at 8:1 Design Factor (Performance at 6.3 Bar - 90 PSI at air inlet when winch is operating)

Model #	Top Layer					First Layer				Average Air Consumption ⁽¹⁾	Sound Level ⁽²⁾	Inlet Size NPT	Exhaust Size NPT	Net Weight		
	hp	Rated Capacity lbs	kg	Speed ft/min	m/min	Rated Capacity ft/min	m/min	Stall Pull lbs	kg					f ³ /min	m ³ /min	db(A)
FA2.5i-MR24MK1G	25	3,180	1445	173	53	145	44	10,277	4671	700	20	97	1-1/4"	2-1/2"	1,265	574

Utility Lift Ratings at 5:1 Design Factor (Performance at 6.3 Bar - 90 PSI at air inlet when winch is operating)

FA2.5i-MR24MK1G	25	5,000	2273	132	40	128	39	10,277	4671	700	20	97	1-1/4"	2-1/2"	1,061	481
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(1) Average Air Consumption is at rated load and speed at top layer (2) With optional muffler

Drum Wire Rope Storage Capacity - Imperial - Man Rider™

Series	Rated capacity lbs	Rope Diameter in	Min Req Break Strength* lbs	Accumulated rope capacity in feet / number of layers														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	
FA2.5i-MR12	3,180	1/2	25,440	68	141	220	305	396	492	594	702							
FA2.5i-MR24	3,180	1/2	25,440	138	289	450	624	809	1,006	1,214	1,435							

Drum Wire Rope Storage Capacity - Metric - Man Rider™

Series	Rated capacity kg	Rope Diameter mm	Min Req Break Strength* kg	Accumulated rope capacity in meters / number of layers														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	
FA2.5i-MR12	1445	13	11539	20	42	66	91	119	147	178	210							
FA2.5i-MR24	1445	13	11539	41	86	135	187	242	301	364	430							

* Note: The Minimum Required Breaking Strength for the wire rope needs to be the Rated Capacity multiplied by the Design Factor.
 Example: for the FA2.5i-MR12 (with a 8:1 Design Factor) 3,180 x 8 = 25,440 lbs.



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