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.

FA2.5i-MR with optional -CE Package

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.

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.

RAAH

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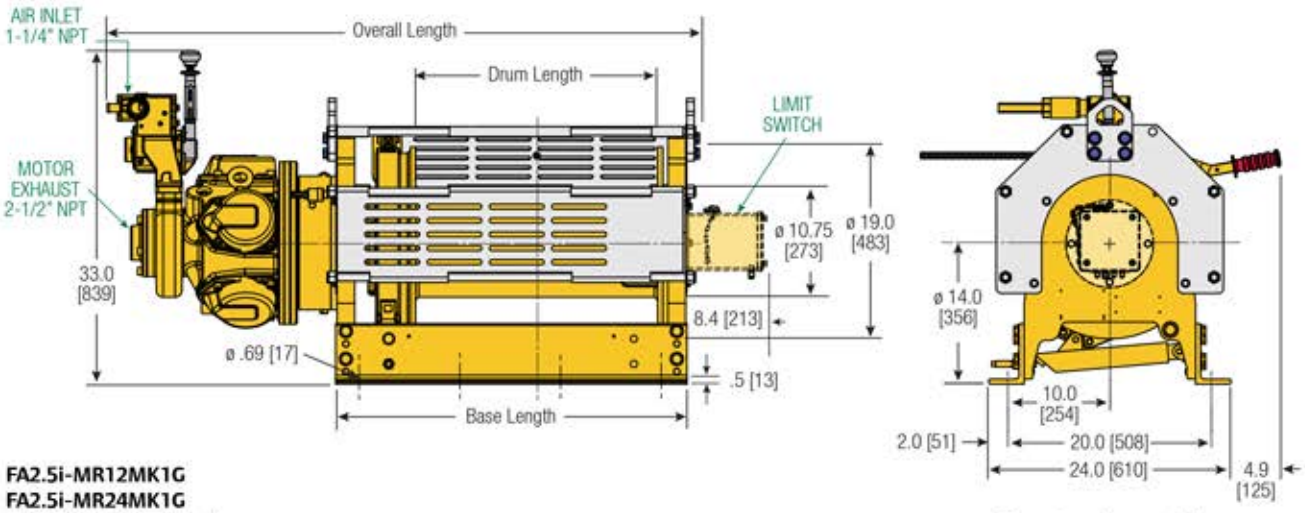


FA2.5i-MR12MK1G
FA2.5i-MR24MK1G
with disc and manual brake

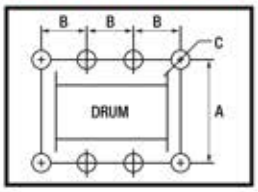
Dimensions shown are inches.
Dimensions in Brackets [ ] are mm.

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]	
	Drum & Disc Brakes		Drum & Disc Brakes	
	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)

		Top Layer				First Layer									
		Rated Capacity		Speed		Speed at Rated Capacity		Stall Pull		Average Air Consumption (1)		Sound Level (2)	Inlet Size	Exhaust Size	Net Weight
Model #	hp	lbs	kg	ft/min	m/min	ft/min	m/min	lbs	kg	ft³/min	m³/min	db(A)	NPT	NPT	lbs / kg
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

(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™

	Rated capacity	Rope Diameter	Min Req Break Strength*	Accumulated rope capacity in feet / number of layers													
Series	lbs	in	lbs	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™

	Rated capacity	Rope Diameter	Min Req Break Strength*	Accumulated rope capacity in meters / number of layers													
Series	kg	mm	kg	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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