



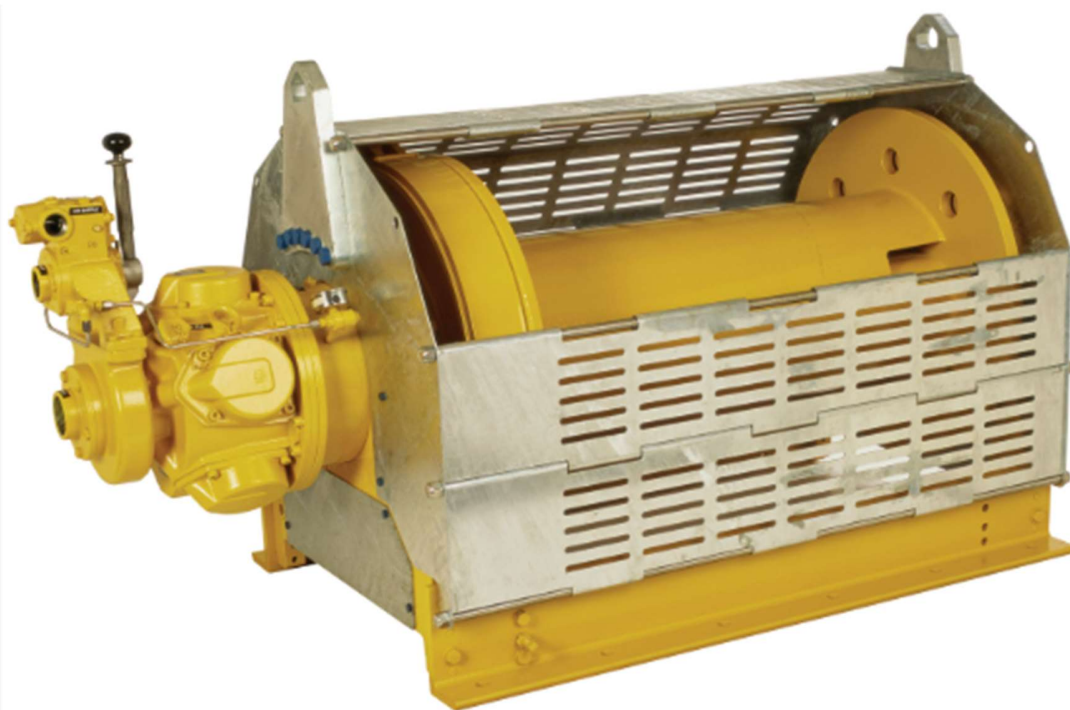
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HUINCHE NEUMATICO SERIE 7TON



FA7I-20



Model Number:

FA7i-20MK17GJ123PVY

The above picture may not be
an exact representation of the product

Especificaciones técnicas sujetas a alteraciones sin previo aviso.





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Model Number:

FA7i-20MK17GJ123PVY

FA7i 15,400 lbs

Utility

20 = 20 inch

M = Manual drum brake

K = Auto disc brake

1 = Std. Throttle lever

G = Drum Guard

J = Airline Accessories ☒ J1 = Filter

☒ J2 = Lubricator

☒ J3 = Regulator



Lubricator, Regulator, Filter

P = Paint :

P = Marine 812 finish paint

V = Press Roller



Y = Overload Protection and Emergency Stop button





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Utility
Air Winches

Force Five Infinity Utility Air Winches Specifications & Performance



FA7i-24XK1G



FA10i-24XK1-CE

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

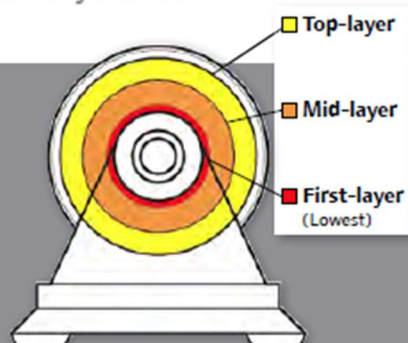
Model #	hp	Top Layer				First Layer				Average Air Consumption ⁽¹⁾	Sound Level ⁽²⁾	Inlet Size	Exhaust Size	Net Weight		
		Rated Capacity		Speed		Speed at Rated Capacity		Stall Pull						lbs	kg	
		lbs	kg	ft/min	m/min	ft/min	m/min	lbs	kg							
FA2i-24XK1	9	4,400	2000	51	16	55	17	9,139	4154	280	8	87	1-1/4"	1-1/4"	850	386
FA2.5i-24XK1	25.2	5,000	2273	132	40	128	39	10,277	4671	700	20	97	1-1/4"	2-1/2"	1,061	481
FA5i-24XK1	25.2	11,000	5000	54	16	51	16	23,594	10725	700	20	97	1-1/4"	2-1/2"	1,872	849
FA5Ti-24XK1	25.2	8,400	3818	70	21	57	17	23,594	10725	700	20	97	1-1/4"	2-1/2"	2,153	977
FA7i-24XK1	25.2	15,400	7000	40	12	35	11	35,946	16305	750	21	97	1-1/4"	2-1/2"	2,205	1000
FA7Ti-24XK1	25.2	12,600	5727	48	15	38	12	35,946	16305	750	21	97	1-1/4"	2-1/2"	2,335	1059
FA10i-24XK1	26.9	22,000	10000	23	7	35	11	38,619	17517	800	23	101	1-1/4"	2-1/2"	3,200	1451

(1) Average Air Consumption is at rated load and speed at top layer

(2) With optional muffler

NOTE: Hydraulic models are available, please contact Client Services.

How Ingersoll Rand
Infinity winches are rated



Tip:

Infinity winches are rated at Top Layer.

The Infinity winch will always lift its rated load at any layer of wire rope.





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Force Five Infinity Utility Air Winches

Standard Drum Wire Rope Storage Capacity

Capacities represent tightly wound wire rope. Recommended working capacity is 80% of values shown.

Utility
Air Winches

Imperial														
Series	Rated capacity lbs	Rope Diameter in	Min Break* Strength lbs	Accumulated rope capacity in feet / number of layers										
				1	2	3	4	5	6	7	8	9	10	11
FA2i-24	4,400	1/2	22,000	138	289	450	624	809	1,006	1,214	1,435			
		5/8	22,000	111	234	369	515	673	843					
FA2.5i-24	5,000	5/8	25,000	111	234	369	515	673	843					
FA5i-24	11,000	3/4	55,000	128	267	418	581	755	940	1,138	1,346			
		7/8	55,000	110	231	364	508	664	832	1,010				
FA5Ti-24	8,400	3/4	42,000	128	267	418	581	755	940	1,138	1,346	1,567	1,799	2,042
		7/8	42,000	110	231	364	508	664	832	1,010	1,201	1,403	1,616	1,841
FA7i-24	15,400	7/8	77,000	117	245	385	536	699	873	1,059	1,256			
		1	77,000	102	216	341	478	626	786	957				
FA7Ti-24	12,600	7/8	63,000	117	245	385	536	699	873	1,059	1,256	1,465	1,685	1,917
		1	63,000	102	216	341	478	626	786	957	1,139	1,333	1,538	
FA10i-24	22,000	1-1/8	110,000	112	236	371	518	676	845	1,026	1,218			

Metric														
Series	Rated capacity kg	Rope Diameter mm	Min Break* Strength kg	Accumulated rope capacity in meters / number of layers										
				1	2	3	4	5	6	7	8	9	10	11
FA2i-24	2000	13	10000	41	86	135	187	242	301	364	430			
		16	10000	34	71	112	156	204	255					
FA2.5i-24	2273	16	11365	34	71	112	156	204	255					
FA5i-24	5000	19	25000	39	81	127	177	230	287	347	410			
		22	25000	33	69	110	153	200	251	305				
FA5Ti-24	3818	19	19090	39	81	127	177	230	287	347	410	478	548	622
		22	19090	33	69	110	153	200	251	305	363	424	488	557
FA7i-24	7000	22	35000	35	74	116	162	211	263	320	379			
		25	35000	31	66	104	146	191	240	292				
FA7Ti-24	5727	22	28635	35	74	116	162	211	263	320	379	443	509	579
		25	28635	31	66	104	146	191	240	292	347	406	469	
FA10i-24	10000	28	50000	35	73	116	161	210	262	318	377			

* NOTE: The Minimum Required Breaking Strength for the wire rope needs to be the Rated Capacity multiplied by the Design Factor.
Example: for the FA2i (with a 5:1 Design Factor) 4,400 x 5 = 22,000 lbs.

For additional drum length/drum wire rope storage capacity charts, go to:

http://fileserv.ingersollrand.com/DocumentLibrary/Infinity_Drum_Wire_Rope_Storage_Capacity_05.23.2011.pdf



For additional information on calculating Total Drum Storage Capacity and more, please go to:
Ingersoll Rand Drum Capacity Estimator - <http://www.ingersollrandproducts.com/lifting/winches/drum.htm>





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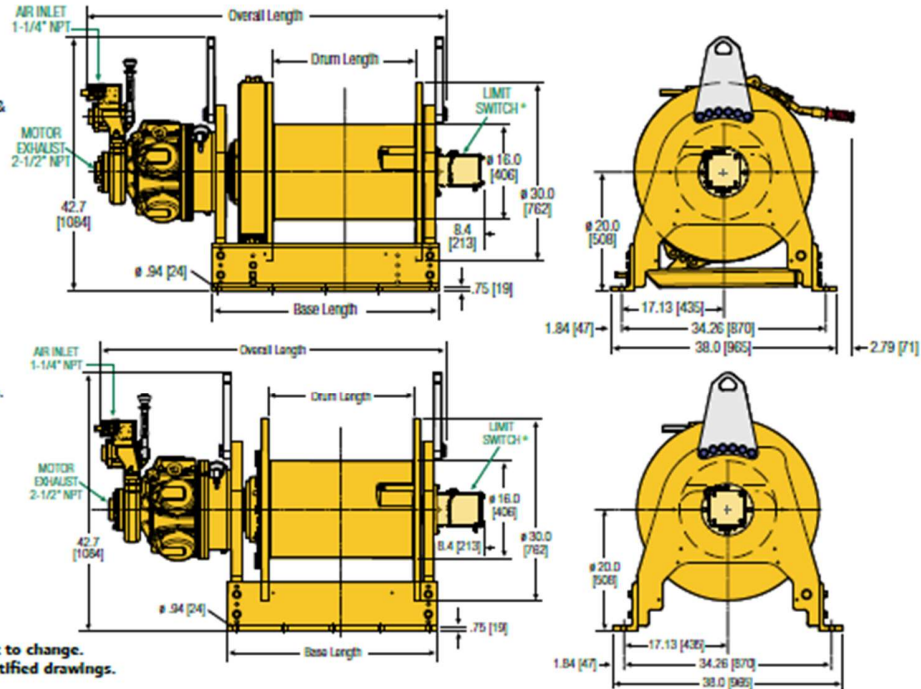
Force Five Infinity Utility Air Winches

FA7i Dimension Drawings - 15,400 lbs (7000 kg)

Utility
Air Winches

FA7i-24**1
FA7i-36**1

(MX) = Manual drum
brake only
(MK) = Manual drum &
auto disc brakes
(AK) = Automatic drum &
auto disc brake



FA7i-24XX1
FA7i-36XX1

(XX) = Disc brake only
Dimensions shown are inches.
Dimensions in Brackets []
are mm.

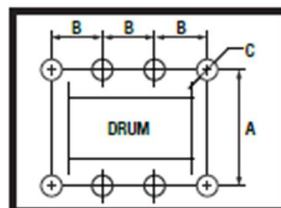
Dimensions are subject to change.
Contact factory for certified drawings.

Dimensions: FA7i and Bolt Down Pattern

		Overall Length						Base Length				Bolt Down "B" Dimension			
Drum Length		Drum Brake Only (MX)		Disc Brake Only (XX)		Both Brakes (MK)		Disc Brake Only (XX)		Drum Only (MX) & Both Brakes (MK)		Disc Brake Only (XX)		Drum Only (MX) & Both Brakes (MK)	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
20	508	53.8	1367	53.4	1356	56.8	1443	30.63	778	34.19	868	9.0	229	8.0	203
24	610	57.8	1468	57.4	1458	60.8	1544	34.63	880	38.19	970	8.0	203	9.0	229
30	762	63.8	1621	63.4	1610	66.8	1697	40.63	1032	44.19	1122	9.5	241	10.0	254
36	914	69.8	1773	69.4	1763	72.8	1849	46.63	1184	50.19	1275	8.5	216	11.0	279
42	1067	75.8	1925	75.4	1915	78.8	2002	52.63	1337	56.19	1427	10.0	254	10.0	254

Bolt Down Pattern

"A" = 34.25" [870mm]
"B" = See above chart
"C" = 0.94" [24mm]
Bolt Hole Inside Diameter



Drum Length in mm	Total Number of Holes	
	Disc Brake Only (XX)	Drum Only (MX) & Both Brakes (MK)
20	8	10
24	10	10
30	10	10
36	12	10
42	12	12

NOTE: * Limit Switches standard on -CE versions only.





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Force Five Infinity

Options Information

A Variety of Options

On a typical How To Order page, these Options will be available to you. Shown are some of the more popular options for clarity. Specify winch by complete model number as illustrated below. Add options in the order of their listing. Order accessories separately by part number.

Example: FA7i-24XK220-14GP1

FA 7i - 24 X K 220 - 14GP1



#



A



B

(FA150KGi only)



D



E



G



H

Options

- # = Drum grooving (specify rope size in sixteenths; e.g., 14 = 14/16" or 7/8")
- A = Drum guard with manual rope guide
- B = Extended warranty (Utility & Dual ManRiders)
- B = Winch pedestal base (FA150KGi)
- C1M3 = -20" C ABS
- C2M3 = -20" C DNV
- D = Drum divider flange & additional cable anchor
- E = Construction cage
- G = Drum guard
- H = Stainless steel hose package
- J ⁽¹⁾ = Air Line Accessories
 - J1: Filter, J2: Lubricator, J3: Regulator,
 - J4: Strainer, J5: Muffler, J6: Liquidator
- K = Stowage valve kit installed on winch
- L = Drum Locking Pin
- M1 = Material Traceability per DIN 50049/EN10204 Para 2.2 "Typicals"
- M2 = Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased
- M3 = Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as delivered in final condition
- N4 ⁽²⁾ = Manufactured under ABS survey
- N5 ⁽²⁾ = Manufactured under DNV survey
- P = Marine 812 finish paint
- P1 = Marine 812-X paint system
- P2 = Marine 812-X paint system - isocyanate free
- R = Emergency lowering system (2 liter bottle)
- Q = Adjustable Accu-Spool™
- S = Rotary limit switch (upper and lower)
- T = Tensioning manifold
- 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 protection with E-Stop provided on lever throttle

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

(1) See page 34 for Air Line Accessories

(2) For N4 and N5 (FA150KGi) refer to pages 21 and (Utility and Dual Rated ManRiders) pages 27 & 28.

L



R



Q



S



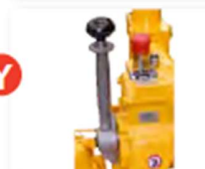
T



V



Y



Options & Accessories

ingersollrandproducts.com/lifting

