



Industrial Lifting Equipment



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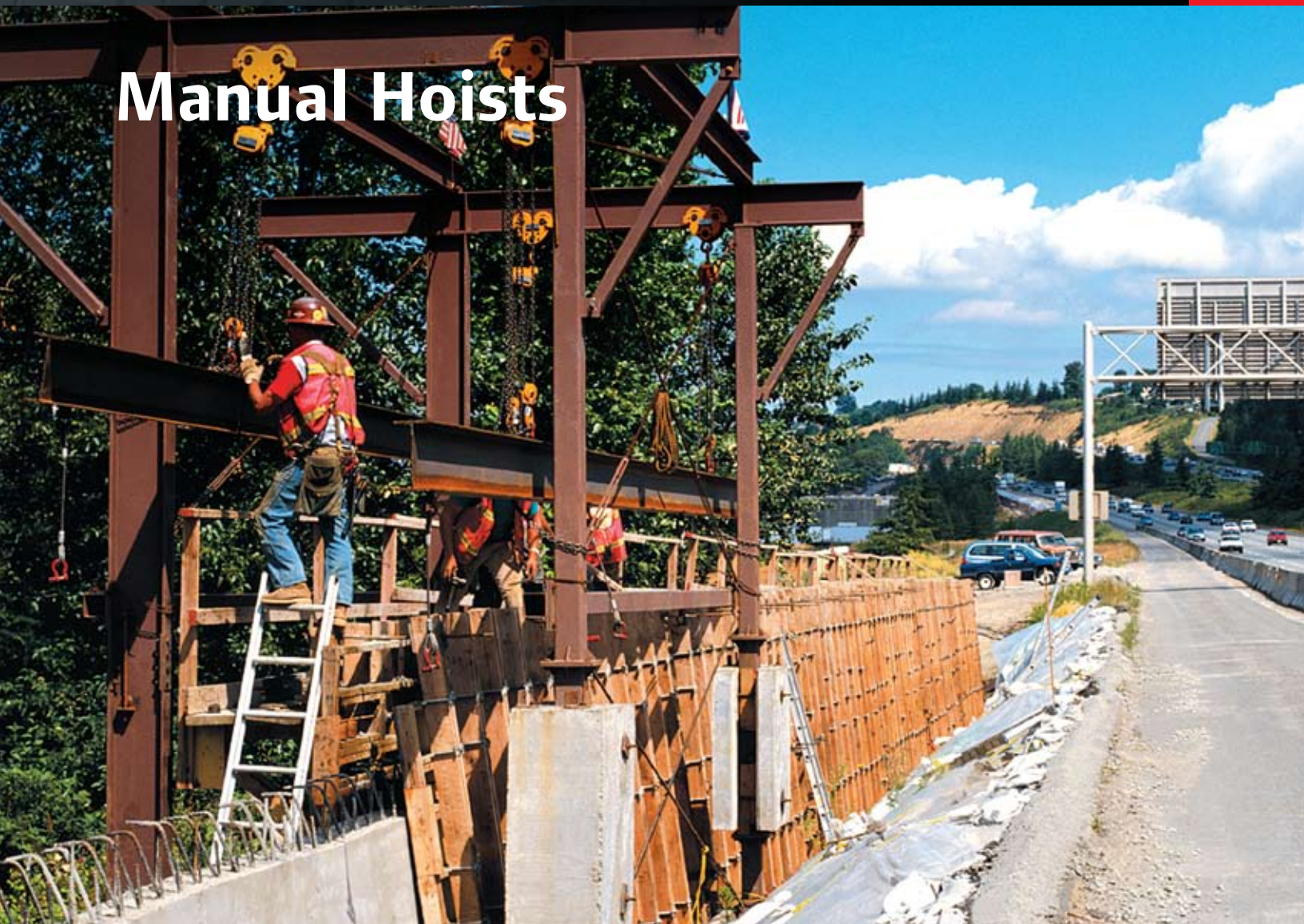


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Manual Hoists



Whether you have to lift, pull, position, tension, or rig a load, Ingersoll Rand has the right manual hoist for the job.

Our wire rope pullers are great for general purpose lifting and pulling applications. Popular with the homeowner and outdoorsman, they are also preferred by professionals who work in tough applications such as construction and mining.

Our manual and lever chain hoists come in a variety of model families, each with a set of features that allow you to choose the right hoist for the job, and at the right price. Each hoist is designed to meet ASME/ANSI specifications and is enhanced to make them as user-friendly as possible. For example, the thoughtful design of the hand grips on our lever hoists and the overload protection on our manual hoists add comfort and safety for operators.

A host of options and accessories — including our spark and corrosion resistant (S*COR*E) option — allow us to serve the demanding needs of applications in harsh environments. Just ask drilling operators how our THV Lo-Pros hold up offshore!

Whatever your application, location, or need, Ingersoll Rand has a hoist for you.

Manual hoist selection guide

Pullers

Model	Number of Lines	Rated Capacity lb	Lifting Distance ft	Cable Diameter in	Number of Hooks	Net Weight lb	Page No.
P SERIES							
P15H	Single	1,000	15	3/16	2	8	5
P15D3H	Single	1,000	15	3/16	3	10	5
P15D3H	Double	2,000	7.5	3/16	3	10	5
C SERIES							
C400H	Single	1,700	20	1/4	2	16	6
C400H	Double	3,400	10	1/4	3	16	6
C400S	Single	2,000	12	3/32 x 1-7/8	2	16	6
C400S	Double	4,000	6	3/32 x 1-7/8	3	16	6

Manual Chain Hoists

Model	Rated Capacity lb	metric tons	Chain Falls	Shipping Weight with 10' of Lift		Pull to Lift Rated Load		Page No.
				lb	kg	lb	kg	
VL2 PREMIUM SERIES								
VL2-005	1,100	0.50	1	20	9.1	55	24.9	7
VL2-010	2,200	1	1	26	11.8	73	33.1	7
VL2-015	3,300	1.50	1	45	20.4	74	33.6	7
VL2-020	4,400	2	1	50	22.7	76	34.5	7
VL2-030	6,600	3	2	52	23.6	76	34.5	7
VL2-050	11,000	5	2	94	42.6	85	38.5	7
VL2-080	17,600	8	3	150	68	90	40.8	7
VL2-100	22,000	10	4	188	85.3	90	40.8	7
VL2-150	33,000	15	6	395	179.1	2 x 90	2 x 40.8	7
VL2-200	44,000	20	8	485	220	2 x 90	2 x 40.8	7
MCH5 CLASSIC SERIES								
MCH5-005	1,100	0.50	1	20	9.1	59	26.8	8
MCH5-010	2,200	1	1	26	11.8	76	34.5	8
MCH5-015	3,300	1.50	1	45	20.4	78	35.4	8
MCH5-020	4,400	2	1	50	22.7	80	36.3	8
MCH5-030	6,600	3	2	52	23.6	81	36.7	8
MCH5-050	11,000	5	2	94	42.6	89	40.4	8
SMB SILVER SERIES								
SMB005	1,100	0.50	1	24	10.9	55	24.9	9
SMB010	2,200	1	1	27	12.2	64	29	9
SMB015	3,300	1.50	1	39	17.7	69	31.3	9
SMB020	4,400	2	1	42	19	77	34.9	9
SMB030	6,600	3	1	70	31.7	100	45.4	9
SMB050	11,000	5	2	90	40.8	83	37.6	9
THV LO-PRO SERIES								
THV005	1,100	0.50	1	35	15.9	55	24.9	10 & 11
THV010	2,200	1	1	50	22.7	73	33.1	10 & 11
THV020	4,400	2	1	90	40.8	76	34.5	10 & 11
THV030	6,600	3	2	120	54.4	76	34.5	10 & 11
THV050	11,000	5	2	205	93	85	38.5	10 & 11
THV080	18,000	8	3	385	174.6	90	40.8	10 & 11
THV100	22,000	10	4	455	206.3	90	40.8	10 & 11

Manual Chain Hoists

Model	Rated Capacity lb	U.S. Tons	Chain Falls	Shipping Weight with 10' of Lift		Pull to Lift Rated Load		Page No.
				lb	kg	lb	kg	
ULM2 SERIES								
ULM2-015	3,000	1.50	1 x 1	207	94.1	41	18.6	12 & 13
ULM2-020	4,000	2	1 x 1	210	95.5	54	24.5	12 & 13
ULM2-030	6,000	3	2 x 2	305	138.6	42	19.1	12 & 13
ULM2-040	8,000	4	2 x 2	308	140	56	25.5	12 & 13
ULM2-050	10,000	5	1 x 1	574	260.9	79	35.9	12 & 13
ULM2-060	12,000	6	1 x 1	574	260.9	94	42.7	12 & 13
ULM2-080	16,000	8	2 x 2	650	295.5	64	29.1	12 & 13
ULM2-100	20,000	10	2 x 2	1,022	464.5	87	39.5	12 & 13
ULM2-120	24,000	12	2 x 2	1,022	464.5	104	47.3	12 & 13
ULM2-160	32,000	16	4 x 2	1,600	727.3	68	30.9	12 & 13
ULM2-200	40,000	20	4 x 2	1,950	886.4	87	39.5	12 & 13
ULM2-240	48,000	24	4 x 2	1,950	886.4	104	47.3	12 & 13
ULM2-250	50,000	25	4 x 2	1,950	886.4	104	47.3	12 & 13
ULM2S SERIES								
ULM2S003	500	0.25	1 x 1	110	50	17	7.7	12 & 13
ULM2S005	1,000	0.50	1 x 1	127	57.7	35	15.9	12 & 13
ULM2S010	2,000	1	1 x 1	127	57.7	70	31.8	12 & 13
ULM2S015	3,000	1.50	2 x 2	245	111.4	57	25.9	12 & 13
ULM2S020	4,000	2	2 x 2	251	114.1	76	34.5	12 & 13
ULM2S030	6,000	3	2 x 2	345	156.8	42	19.1	12 & 13
ULM2S040	8,000	4	2 x 2	350	159.1	58	26.4	12 & 13
ULM2S050	10,000	5	2 x 2	466	211.8	73	33.2	12 & 13
ULM2S060	12,000	6	2 x 2	466	211.8	90	40.9	12 & 13
L5H PREMIUM SERIES								
L5H150	1,650	0.75	1	15	6.8	35	15.9	14
L5H200	2,000	1	1	16	7.3	43	19.5	14
L5H300	3,300	1.50	1	21	9.5	40	18.1	14
L5H400	4,000	2	1	22	10	49	22.2	14
L5H600	6,600	3	1	34	15.4	73	33.1	14
L5H1200	13,200	6	2	62	28.1	77	34.9	14
LV CLASSIC SERIES								
LV150	1,650	0.75	1	15	6.8	35	15.9	15
LV300	3,300	1.50	1	21	9.5	40	18.1	15
LV600	6,600	3	1	36	16.3	73	33.1	15
LV1200	13,200	6	2	59	26.8	77	34.9	15
SLB SILVER SERIES								
SLB150	1,650	0.75	1	16	7.3	41	18.6	16
SLB200	2,200	1	1	16	7.3	60	27.2	16
SLB300	3,300	1.50	1	26	11.8	53	24	16
SLB600	6,600	3	1	46	20.9	53	24	16
SLB1200	13,200	6	2	69	31.3	57	28.9	16

Note: Ingersoll Rand VL2, MCH5, SMB, THV and ULM2/S series manual chain hoist meet or exceed ANSI B30.16 standards.

Lever Chain Hoist

Model	Rated Capacity lb	metric tons	Chain Falls	Shipping Weight with 10' of Lift		Pull to Lift Rated Load		Page No.
				lb	kg	lb	kg	
L5H PREMIUM SERIES								
L5H150	1,650	0.75	1	15	6.8	35	15.9	14
L5H200	2,000	1	1	16	7.3	43	19.5	14
L5H300	3,300	1.50	1	21	9.5	40	18.1	14
L5H400	4,000	2	1	22	10	49	22.2	14
L5H600	6,600	3	1	34	15.4	73	33.1	14
L5H1200	13,200	6	2	62	28.1	77	34.9	14
LV CLASSIC SERIES								
LV150	1,650	0.75	1	15	6.8	35	15.9	15
LV300	3,300	1.50	1	21	9.5	40	18.1	15
LV600	6,600	3	1	36	16.3	73	33.1	15
LV1200	13,200	6	2	59	26.8	77	34.9	15
SLB SILVER SERIES								
SLB150	1,650	0.75	1	16	7.3	41	18.6	16
SLB200	2,200	1	1	16	7.3	60	27.2	16
SLB300	3,300	1.50	1	26	11.8	53	24	16
SLB600	6,600	3	1	46	20.9	53	24	16
SLB1200	13,200	6	2	69	31.3	57	28.9	16

Note: Ingersoll Rand L5H, LV and SLB series lever chain hoists meet or exceed ANSI B30.21 standards.

P Series wire rope pullers

1,000 and 2,000 lb capacities

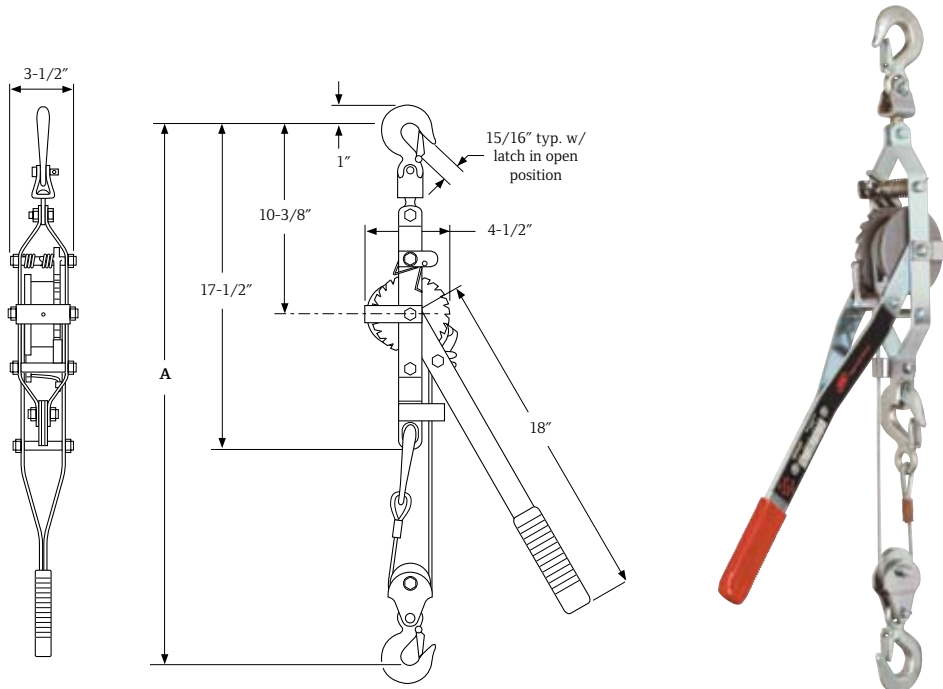
Wire puller features

- 4:1 design factor meets ASME B30.21
- Handle and frame are made of heavy-gauge steel with rivet construction and slip-resistant grip; all steel parts are plated for long life
- Solid “butterfly tooth” cast gear design has no laminated plates
- Sturdy steel drive and holding pawls have long life, stainless-steel springs; all pivot points are hardened steel
- Safety latch hooks are drop-forged steel, heat-treated, and plated for corrosion resistance; top hook rotates 360° for easy operation
- Cast-aluminum drum has through-the-drum anchor, larger diameter, and drum guard so the wire rope will stay tight, bend less, and spool evenly while rewinding
- Galvanized aircraft-quality wire rope is preformed to prevent kinks
- One-year warranty

P Series Specifications

Model	Capacity lb	Number of Lines	Pull to Lift Rated Load		Cable Diameter	Min. “A” dist. Between Hooks	Lifting Distance	Number of Hooks	Shipping Weight with 10' of Lift	
			lb	kg	in	in	ft		lb	kg
P15H	1,000	1	100	45.5	3/16	19.5	15	2	8.5	3.9
P15D3H	1,000	1	100	45.5	3/16	21	15	3	10.5	4.8
P15D3H	2,000	2	105	47.7	3/16	27.5	7.5	3	10.5	4.8

Dimensions are subject to change.



C Series wire rope and strap pullers

1,700 to 4,000 lb capacities

Cable puller features

- 4:1 design factor for lifting, lowering, and pulling applications; meets ASME B30.21
- Lightweight aluminum frame
- Alloy steel load hook with safety latches
- One-piece cast aluminum drum
- Galvanized, aircraft-quality wire rope
- Ratchet and pawl system provides safe, one-notch-at-a-time lowering
- Cable guide and shield protects wire rope and spools cable evenly
- Reversible handle changes position easily, so pull is always possible against the load

Strap puller features

Part of the premium C Series, these strap pullers offer the following unique features:

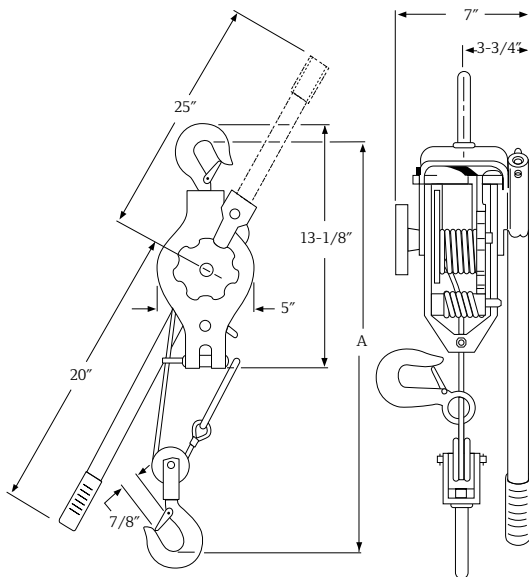
- Increased capacity with smooth, non-marring web strap
- Non-conductive, corrosion-resistant, high-strength synthetic strap will not kink or bind
- Easy payout of strap for fast setup



C Series Specifications

Model	Capacity lb	Number of Lines	Pull to Lift Rated Load		Cable Diameter	Min. "A" dist. between hooks	Lifting Distance	Number of Hooks	Shipping Weight with 10' of Lift	
			lb	kg	in	in	ft		lb	kg
C400H	1,700	1	57	25.9	1/4	17	20	2	16	7.3
C400H	3,400	2	62	28.2	1/4	22	10	3	16	7.3
C400S	2,000	1	65	29.5	3/32 x 1-7/8	17	12	2	16	7.3
C400S	4,000	2	70	31.8	3/32 x 1-7/8	22	6	3	16	7.3

Dimensions are subject to change.



Overload safety handle is designed to bend when an overload is detected. Once the handle begins to bend, additional force will limit the hoist from lifting beyond its capacity.



VL2 Premium Series manual chain hoists

0.50 to 20 metric ton lifting capacities

Features

The high-quality VL2 Series features an exclusive hand chain guide for smooth, even operation that helps eliminate jamming when operated away from the load area. Ideal for "pick and drift" applications. Perfect for the construction, maintenance, rigging, and shipbuilding industries.

- Accu-Feed™ hand chain guide articulates for smooth operation from either side, away from the load being lifted
- All-steel construction for external impact resistance
- Forged steel alloy load hooks with non-slip design have extra-wide throat openings for easy rigging
- Premium alloy steel-grade 100 load chain
- Thrust-bearing bottom block on 3-ton and above helps prevent chain twisting or kinking
- Chain anchor prevents jamming at the hook's lowest position
- Needle bearings reduce friction and provide low hand-chain pull
- CE certified; hoists meet or exceed regional requirements including ASME B30.16, HST-2M
- Overload protection: Clutches slip in the lifting direction only



Nylon-bushed VL2 hoist hand chain guide features zinc-plated hand chain.



VL2 Series Specifications

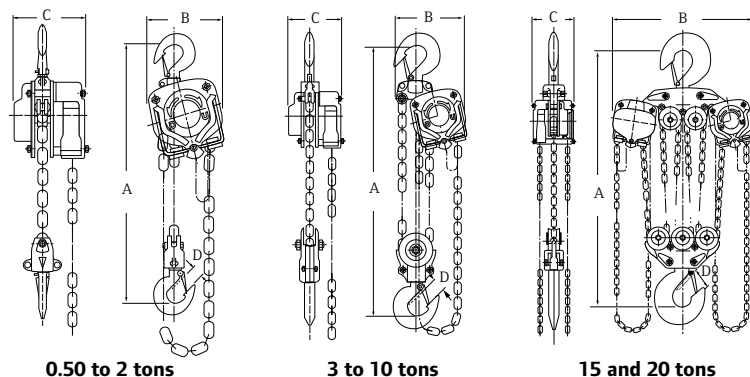
Model	Capacity			Pull to Lift Rated Load		Chain O'Hauled to Lift Load 1 ft		Chain Size mm	Chain Weight per Foot		Shipping Weight with 10' of Lift	
	lb	metric tons	# Falls	lb	kg	ft	m		lb	kg	lb	kg
VL2-005	1,100	0.50	1	55	24.9	25	7.6	5 x 15	0.4	0.2	20	9.1
VL2-010	2,200	1	1	73	33.1	28	8.5	6.3 x 19.2	0.6	0.3	26	11.8
VL2-015	3,300	1.50	1	74	33.6	57	17.4	7.1 x 21.2	0.7	0.3	45	20.4
VL2-020	4,400	2	1	76	34.5	73	22.3	8 x 24.2	1	0.5	50	22.7
VL2-030	6,600	3	2	76	34.5	112	34.1	7.1 x 21.2	1.5	0.7	52	23.6
VL2-050	11,000	5	2	85	38.5	181	55.2	9 x 27.2	2.4	1.1	94	42.6
VL2-080	17,600	8	3	90	40.8	272	82.9	9 x 27.2	3.6	1.6	150	68
VL2-100	22,000	10	4	90	40.8	362	110.3	9 x 27.2	4.8	2.2	188	85.3
VL2-150	33,000	15	6	2 x 90	2 x 40.8	2 x 272	2 x 82.9	9 x 27.2	7.1	3.2	395	179.1
VL2-200	44,000	20	8	2 x 90	2 x 40.8	2 x 362	2 x 110.3	9 x 27.2	9.5	4.3	485	220

Note: Overload clutch is standard equipment on all models.

VL2 Series Dimensions

Model	A (min)	B	C	D
VL2-005	12	5.7	5	1.1
VL2-010	13.6	6.2	5.8	1.2
VL2-015	14.6	6.9	5.8	1.3
VL2-020	16.8	8	7.1	1.5
VL2-030	19.9	8.1	5.8	1.6
VL2-050	25	10.4	7.1	1.9
VL2-080	29.1	13.6	7.1	2.6
VL2-100	29.9	14.4	7.1	2.6
VL2-150	33.5	29.4	8.2	3.4
VL2-200	34.3	34.4	8.2	3.4

Dimensions are subject to change.



► HOW TO ORDER

Example:	Base Model	-	Lift	-	Hand Chain Drop	Option
	VL2-030-		20		18	VS
S*COR*E hand chain	=	H	Overload clutch (standard)	=	V	
S*COR*E load chain	=	N	Sandblast / carbozinc finish	=	Z	
Fabric chain container	=	S	Marine 812 top coat	=	P	

Note: S*COR*E options provide improved protection, durability and performance for hoist operating in corrosive or harsh environments or where additional spark resistance is desirable.

MCH5 Classic Series manual chain hoists

0.50 to 5 metric ton lifting capacities

Features

- Compact design for limited headroom applications
- High-strength steel frame and gear case built to be durable for the rugged needs of construction and maintenance rigging
- Heat-treated spur gear is efficiently designed to provide smooth load handling and low hand chain pull
- Open frame design for self-cleaning, quick load sheave inspection and easy hoist maintenance
- Designed to international standards, non-slip load hooks and top hooks are fitted with hook latches
- Premium alloy steel grade 100 load chain
- CE certified; hoists meet or exceed regional requirements including ASME B30.16, HST-2M



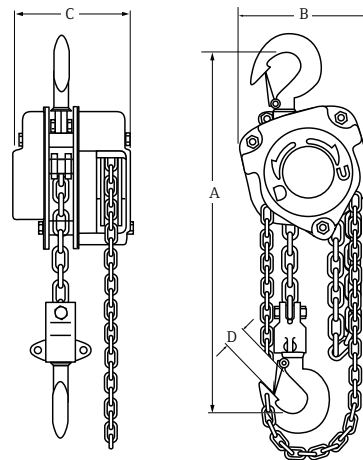
MCH5 Series Specifications

Model	Capacity		# Falls	Pull to Lift Rated Load		Chain O'Hauled to Lift Load 1 ft		Chain Size mm	Chain Weight per Foot		Shipping Weight with 10' of Lift	
	lb	metric tons		lb	kg	ft	m		lb	kg	lb	kg
MCH5-005	1,100	0.50	1	59	26.8	25	7.6	5 x 15	0.4	0.2	20	9.1
MCH5-010	2,200	1	1	76	34.5	39	11.9	6.3 x 19.2	0.6	0.3	26	11.8
MCH5-015	3,300	1.50	1	78	35.5	58	17.7	7.1 x 21.2	0.7	0.3	45	20.5
MCH5-020	4,400	2	1	80	36.4	75	22.9	8 x 24.2	1	0.5	50	22.7
MCH5-030	6,600	3	2	81	36.8	116	35.4	7.1 x 21.2	1.5	0.7	52	23.6
MCH5-050	11,000	5	2	89	40.5	187	57	9 x 27.2	2.4	1.1	94	42.7

MCH5 Series Dimensions (in)

Model	A (min)	B	C	D
MCH5-005	12	5.7	5	1.1
MCH5-010	13.6	6.2	5.8	1.2
MCH5-015	14.6	6.9	5.8	1.4
MCH5-020	16.8	8	7	1.4
MCH5-030	19.9	8.1	5.8	1.7
MCH5-050	25	10.4	7	1.9

Note: Dimensions are subject to change.



► HOW TO ORDER

Example: Base Model - Lift - Hand Chain Drop Option
MCH5-010- - 20 - 18 B

S*COR*E hand chain = H

S*COR*E load chain = N

Fabric chain container = S

Bullard bottom hook = B (available up to 2 ton only)

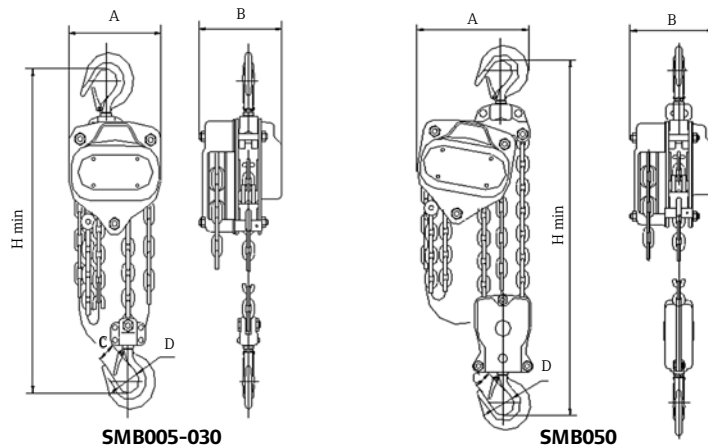
Note: S*COR*E options provide improved protection, durability and performance for hoist operating in corrosive or harsh environments or where additional spark resistance is desirable.

SMB Silver Series manual chain hoists

0.50 to 5 metric ton lifting capacities

Ingersoll Rand SMB Silver Series manual chain hoists offer the strength and durability you need in tough lifting situations. Their high-strength, all-stamped steel construction provides decreased weight and better impact resistance. In addition, the hoists feature roller bearings on input shafts for easier lifting.

- Encased and retained roller bearings for increased efficiency and ease of maintenance
- Single chain fall through 3 tons
- Nickel / chrome-plated exterior and zinc-plated frame components for increased corrosion resistance
- Double hand-chain guides for smooth operation when pulling excess hand chain
- Open frame design for easy cleaning and inspection
- CE certified; hoists meet or exceed regional requirements including ASME B30.16, HST-2M
- Hardened swivel-latch hooks
- Overload protection; clutch slips in the lifting direction only



SMB Series Specifications

Model	Capacity			Pull to Lift Rated Load		Chain O'Hauled to Lift Load 1 ft		Chain Size mm	Chain Weight per Foot		Shipping Weight with 10' of Lift	
	lb	metric tons	# Falls	lb	kg	ft	m		lb	kg	lb	kg
SMB005	1,100	0.50	1	55	25	25	7.6	5 x 15	0.6	0.3	23.5	10.68
SMB010	2,200	1	1	64	29.1	39	11.9	6 x 18	0.6	0.3	26.8	12.18
SMB015	3,300	1.50	1	69	31.4	58	17.7	7 x 21	1	0.5	38.5	17.5
SMB020	4,400	2	1	77	35	75	22.9	8 x 24.6	1.1	0.5	42.4	19.27
SMB030	6,600	3	1	100	45.5	116	35.4	10 x 30	2.1	1	70.4	32
SMB050	11,000	5	2	83	37.7	187	57	9 x 27	2.4	1.1	90.2	41

Note: Overload clutch is standard equipment on all models.

SMB Series Dimensions (in)

Model	A	B	C	D	H (min)
SMB005	5.2	5.4	1.1	1.5	12.8
SMB010	5.9	6	1.3	1.6	13.8
SMB015	7	6.8	1.4	1.8	17.1
SMB020	7.6	6.9	1.6	2	18.2
SMB030	9.4	8	1.7	2.2	20.9
SMB050	11.2	7.4	2	2.6	28

Note: Dimensions are subject to change.

► HOW TO ORDER

Example: Base Model - Lift - Hand Chain Drop Option
SMB050- **20** **18** **VB**

Bullard bottom hook = B (available up to 2 ton only)

Overload clutch (V) - Standard

S*COR*E hand chain - Standard

Note: S*COR*E options provide improved protection, durability and performance for hoist operating in corrosive or harsh environments or where additional spark resistance is desirable.

THV Lo-Pro Series Army-style manual chain hoists

0.50 to 10 metric ton lifting capacities

Features

- Low-headroom trolley hoist
- Premium VL2 hoist coupled with low-profile trolley
- All-steel construction for external impact resistance
- Forged-steel alloy load hooks with non-slip design and extra-wide throat openings for easy rigging
- Premium-grade 100 steel alloy load chain
- Contour trolley wheel design provides maximum beam contact on flat or tapered beams
- Thrust-bearing bottom block helps prevent chain twisting or kinking
- Needle bearings reduce friction and provide low hand chain pull



THV Lo-Pro Series Specifications

Model	Capacity		# Falls	Pull to Lift Rated Load		Chain O'Hauled to Lift Load 1 ft		Chain Size mm	Chain Weight per Foot		Shipping Weight with 10' of Lift		Shipping Weight with Plain Trolley		Shipping Weight with Geared Trolley	
	lb	metric tons		lb	kg	ft	m		lb	kg	lb	kg	lb	kg	lb	kg
THV005	1,100	0.50	1	55	25	25	7.6	5 x 15	1	0.4	15	6.8	35	15.9	38	17.2
THV010	2,200	1	1	73	33.2	39	11.9	6.3 x 19.2	1.2	0.5	29	13.2	50	22.7	54	24.5
THV020	4,400	2	1	76	34.5	75	22.9	8 x 24.2	1.5	0.7	37	16.8	90	40.8	96	43.5
THV030	6,600	3	2	76	34.5	116	35.4	7.1 x 21.2	2.1	1	44	20	120	54.4	128	58
THV050	11,000	5	2	85	38.6	187	57	9 x 27.2	3	1.4	55	24.9	205	93	255	115.6
THV080	18,000	8	3	90	40.9	281	85.6	9 x 27.2	4.2	1.9	60	27.2	385	174.6	420	190.5
THV100	22,000	10	4	90	40.9	375	114.3	9 x 27.2	5.4	2.5	60	27.2	455	206.3	480	217.7

► HOW TO ORDER

Example: Base Model - Lift - Hand Chain Drop Flange Width Option
 THV05G- - 20 - 18 B VPNZS

B flange (2 inch over std)	=	B
Marine 812 top coat	=	P
S*COR*E load chain	=	N (standard on CP and SB models only)
S*COR*E hand chain	=	H (standard on CP and SB models only)
Fabric chain container	=	S
Trolley lugs and bumpers	=	T
Overload clutch	=	V (standard)
Sandblast / carbozinc	=	Z

Note: S*COR*E options provide improved protection, durability and performance for hoist operating in corrosive or harsh environments or where additional spark resistance is desirable.

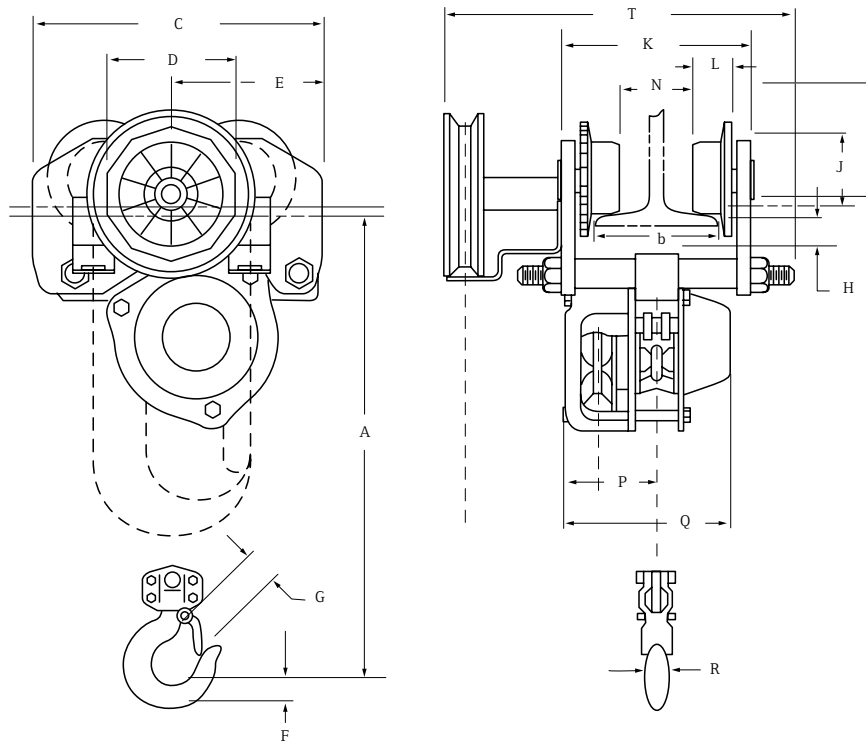
THV Lo-Pro Series

0.50 to 10 metric ton lifting capacities

THV Series Dimensions (in)

Model	A (min)	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	T*
THV005	10.6	10	4.5	5.5	0.8	1.1	1.5	4.3	2.8	b+1.9	1.4	b-1.9	2.8	6.3	0.5	11.6
THV010	12.7	10	4.5	5.5	0.9	1.1	1.5	4.3	2.8	b+1.9	1.4	b-1.9	2.8	6.4	0.6	11.6
THV020	15.2	12.6	5.4	7.1	1.4	1.5	1.1	5	3.4	b+2	1.5	b-2.1	3.5	7.3	0.9	11.6
THV030	17.4	14	6.3	7.9	1.5	1.6	1.5	5.8	4	b+2.1	1.6	b-2.4	3.1	6.8	1.1	12
THV050	21.5	17.5	7	10.5	1.9	1.8	1.4	6.6	4.8	b+2.8	2.1	b-2.9	3.5	7.5	1.4	14.5
THV080	26.8	20.5	7.8	9.9	2.9	2.5	1.2	7.4	6.1	b+3.3	2.4	b-3.5	4	8.3	2.1	18.8
THV100	27.6	20.5	7.8	9.9	2.9	2.5	1.2	7.4	6.1	b+3.3	2.4	b-3.5	4	8.3	2.1	18.8

* Applicable for geared trolleys only.



ULM2/S Ultra-Lo Series manual chain hoist

0.25 – 25 U.S. ton lifting capacity

Features

The Ingersoll Rand ULM2 and ULM2S have been designed to offer our lowest headroom possible, maximizing lifting capacities for areas with height restrictions.

- All steel construction for external impact resistance
- Forged steel load hooks
- Chill-hardened, machine tread trolley wheels with two precision bearings per wheel
- Swivel trolleys available to travel extremely tight radius, (as tight as 21 feet) for track without sacrificing headroom for capacities up to 6 ton
- Custom built for easy installation
- Low headroom capacities available from 0.25 through 25 ton
- Two roller thrust bearings used in trolley capacities 3 tons and larger for longer life and reliability
- Corrosion-resistant zinc-plated hand chain
- Designed and built to ANSI B30.16



Options

- Stainless steel and bronze parts available for spark-resistant features
- Corrosion-resistant finish
- Overload clutch for all capacities
- Chain container for all capacities and all lifts up to 50 feet
- Track clamps
- Hand wheel extensions
- Zinc-plated load chain

► HOW TO ORDER

Example: Series - Trolley - Capacity Lift/ft Drop/ft Options
ULM2 - GT - 010- 10- 6 V

ULM2 PT = Plain trolley tapered **Options**
 ULM2S w/ PF = Plain trolley flat Overload clutch = V
 swivel trolley GT = Geared trolley tapered Fabric chain container = C
 GF = Geared trolley flat

ULM2/S Series Specifications

Model	Capacity			Pull to Lift		Chain O'Hauled to Lift		Chain Size	Straight Track		Min. Curve Radius	Max width for		Shipping Weight		Shipping Weight		
	U.S. lb	Tons	# Falls	Rated Load lb	kg	Load 1 ft ft	m		Flange Adj. in	mm		min. curve radius in	mm	Plain Trolley lb	kg	Geared Trolley lb	kg	
ULM2 SERIES																		
ULM2-015	3,000	1.50	1 x 1	41	18.6	87	26.5	7.1	3.3 - 8	83.8 - 203.2	78	1981.2	-	-	207	94.1	230	104.5
ULM2-020	4,000	2	1 x 1	54	24.5	87	26.5	7.1	3.3 - 8	83.8 - 203.2	78	1981.2	-	-	210	95.5	233	105.9
ULM2-030	6,000	3	2 x 2	42	19.1	176	53.6	7.1	4 - 8	101.6 - 203.2	78	1981.2	-	-	305	138.6	355	161.4
ULM2-040	8,000	4	2 x 2	56	25.5	176	53.6	7.1	4 - 8	101.6 - 203.2	90	2286	-	-	308	140	340	154.5
ULM2-050	10,000	5	1 x 1	79	35.9	165	50.3	13.5	4.6 - 8	116.8 - 203.2	102	2590.8	-	-	574	260.9	633	287.7
ULM2-060	12,000	6	1 x 1	94	42.7	165	50.3	13.5	4.6 - 8	116.8 - 203.2	102	2590.8	-	-	574	260.9	633	287.7
ULM2-080	16,000	8	2 x 2	64	29.1	355	108.2	9.5	4.6 - 8	116.8 - 203.2	114	2895.6	-	-	650	295.5	773	351.4
ULM2-100	20,000	10	2 x 2	87	39.5	330	100.6	13.5	5 - 8	127 - 203.2	-	-	-	-	1,022	464.5	1,105	502.3
ULM2-120	24,000	12	2 x 2	104	47.3	330	100.6	13.5	5 - 8	127 - 203.2	-	-	-	-	1,022	464.5	1,105	502.3
ULM2-160	32,000	16	4 x 2	68	30.9	710	216.4	9.5	5 - 8	127 - 203.2	-	-	-	-	1,600	727.3	1,681	764.1
ULM2-200	40,000	20	4 x 2	87	39.5	732	223.1	13.5	6 - 8	152.4 - 203.2	-	-	-	-	1,950	886.4	2,110	959.1
ULM2-240	48,000	24	4 x 2	104	47.3	732	223.1	13.5	6 - 8	152.4 - 203.2	-	-	-	-	1,950	886.4	2,110	959.1
ULM2-250	50,000	25	4 x 2	104	47.3	732	223.1	13.5	6 - 8	152.4 - 203.2	-	-	-	-	1,950	886.4	2,110	959.1
ULM2S SERIES																		
ULM2S003	500	0.25	1 x 1	17	7.7	33	10.1	7.1	3 - 5.4	76.2 - 137.2	21	533.4	3.4	86.4	110	50	127	57.7
ULM2S005	1,000	0.50	1 x 1	35	15.9	33	10.1	7.1	3 - 5.4	76.2 - 137.2	21	533.4	3.4	86.4	127	57.7	144	65.5
ULM2S010	2,000	1	1 x 1	70	31.8	33	10.1	7.1	3 - 5.4	76.2 - 137.2	21	533.4	3.4	86.4	127	57.7	144	65.5
ULM2S015	3,000	1.50	2 x 2	57	25.9	66	20.1	7.1	3.3 - 6	83.8 - 152.4	30	762	4	101.6	245	111.4	267	121.4
ULM2S020	4,000	2	2 x 2	76	34.5	66	20.1	7.1	3.3 - 6	83.8 - 152.4	30	762	4	101.6	251	114.1	270	122.7
ULM2S030	6,000	3	2 x 2	42	19.1	170	51.8	7.1	4 - 6	101.6 - 152.4	42	1066.8	5.9	149.9	345	156.8	375	170.5
ULM2S040	8,000	4	2 x 2	58	26.4	170	51.8	7.1	4 - 6	101.6 - 152.4	48	1219.2	5.9	149.9	350	159.1	380	172.7
ULM2S050	10,000	5	2 x 2	73	33.2	170	51.8	7.1	4.6 - 8	116.8 - 203.2	48	1219.2	7.9	200.7	466	211.8	496	225.5
ULM2S060	12,000	6	2 x 2	90	40.9	170	51.8	7.1	4.6 - 8	116.8 - 203.2	48	1219.2	7.9	200.7	466	211.8	496	225.5

Note: Standard lift is 8 ft. Maximum flange thickness for ULM2S003 - 030 is 0.5", ULM2S040 - 060 is 0.625"

ULM2/S Ultra-Lo Series manual chain hoist

0.25 – 25 U.S. ton lifting capacity

ULM2 and ULM2S Beam Flange Chart (in)

Plain and geared trolleys for straight and curved track						
	Capacity U.S. tons	Fits flange width for straight track	Max flange width for min. curve radius	Flange thickness for radius min. max.		
ULM2 SERIES						
ULM2-015, ULM2-020	1.50, 2	3.375 - 8	-	-	-	-
ULM2-030, ULM2-040	3, 4	4 - 8	-	-	-	-
ULM2-050, ULM2-060, ULM2-080	5, 6, 8	4.625 - 8	-	-	-	-
ULM2-100, ULM2-120	10, 12	5 - 8	-	-	-	-
ULM2-160, ULM2-200	16, 20	5.5 - 8	-	-	-	-
ULM2-240, ULM2-250	24, 25	6 - 8	-	-	-	-
ULM2S SERIES						
ULM2S003, ULM2S005, ULM2S010	0.25, 0.50, 1	3 - 5.375	3.375	21	0.5	
ULM2S015, ULM2S020	1.50, 2	3.375 - 6	4	30	0.5	
ULM2S030, ULM2S040	3, 4	4 - 6	5.875	42	0.625	
ULM2S050, ULM2S060	5, 6	4.625 - 8	7.875	48	0.875	

Note: Contact technical sales for wider beam flange applications

ULM2 Series Dimensions (in)

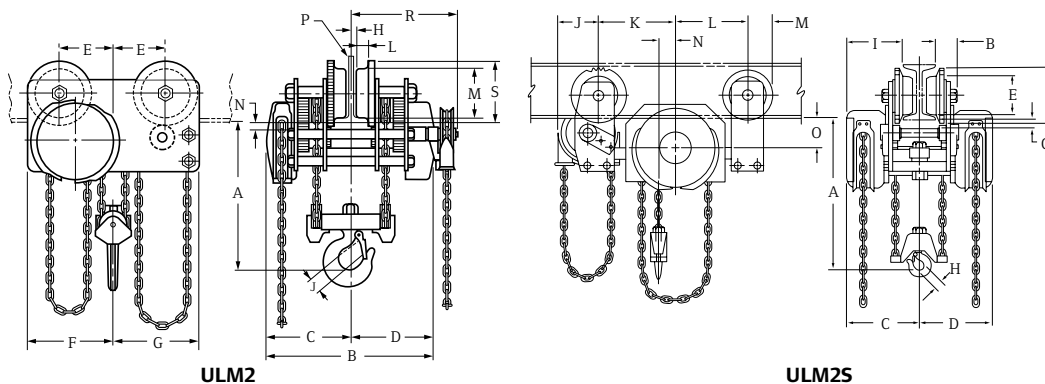
Capacity U.S. tons	A (min)	B	C	D	E	E1	F	G	H	J	L	M	N1	P(2)	R	S
1.50 & 2	6.3	20.4	10.2	10.2	5.1	5.1	8.8	8.3	0.6	1.1	1.1	4.3	0.5	S6X12.5	13.1	6
3	7.4	20.4	10.2	10.2	6.5	6.6	10.6	10.6	0.6	1.3	11.3	6.4	0.5	S8X18.4	13.1	8
4	8	20.4	10.2	10.2	6.5	6.6	10.6	10.6	0.6	1.3	11.3	6.4	0.5	S8X18.4	13.1	8
5 & 6	8.8	26.3	13.1	13.1	7.4	7.4	12	12	0.9	1.3	11.3	7.2	0.6	S10X25.4	16.5	9
8	11	26.3	13.1	13.1	8.4	8.4	14	13.5	0.6	2.1	1.7	8.3	0.6	S10X25.4	16.5	10
10 & 12	11.5	26.3	13.1	13.1	8.5	9.8	15.6	14.4	0.6	2.3	1.8	9.8	0.6	S12X31.8	16.5	11.7
16	13.6	30.4	15.2	15.2	11.9	11.9	18.6	18.6	0.6	3	2	11.8	0.8	S15X42.9	18.9	13.5
20, 24 & 25	17.3	30.4	15.2	15.2	12.1	12.4	19.3	19	0.8	3.6	2	11.8	0.6	S18X54.7	18.4	13.5

Note: (1) At under beam roller
 (2) Minimum standard I-beam for proper wheel running clearance.
 Contact technical sales for smaller beams.
 Customer must verify their beam is adequate for applied loads.

ULM2S Series Dimensions (in)

Capacity U.S. tons	A (min)	B	C	D	E	F	G1	G2	H	I	J	K2	L2	M	N	O
0.25 through 1	6.3	2	6.6	6.6	3.8	5	2.2	1.1	1	4.7	3.8	7.3	6.5	2.5	1.4	2.9
1.50 & 2	6.8	2.2	9.1	9.1	4.5	6	0.6	0.6	1.1	7.2	6.3	11.4	7.6	3	3	1.9
3	8.8	2.6	9.9	9.9	6.4	8	0.9	0.9	1.3	8.1	6.1	11.6	7.7	4	3	1.9
4	9.3	2.6	9.9	9.9	6.4	8	0.9	0.9	1.7	8.1	6.1	11.6	7.7	4	3	3.4
5 & 6	9.9	2.8	10.1	10.1	7.2	9	0.9	0.9	1.7	8.5	6.9	11.6	8.8	4.5	3	3.9

Note: (1) Plain
 (2) Geared



L5H Premium Series lever chain hoists

0.75 to 6 metric ton line pull capacities

Features

Our top-of-the-line lever chain hoists offer the ultimate in performance and endurance.

Enhanced safety

- Unique, innovative Torsion-Lok brake system ensures positive engagement
- Color-coded red / green indicator shows at a glance if hoist is in load- or free-chain position
- Wide-throat, forged alloy steel load hooks with slip-resistant barbed tips to better retain slings
- Patented cast steel anchor prevents chain end from being pulled through hoist

Improved performance

- Simple and convenient single-hand free-chaining
- 360° handle needs only 15° movement to ratchet and position loads

Rugged construction

- Hoists meet ASME B30.21 and HST-3M standards
- High-strength, cold-formed, and stamped-steel construction for less weight and more impact resistance
- Open-frame design for easy cleaning and inspection
- Grade 100 alloy chain
- Plated fasteners and springs increase reliability and durability
- Comfortable, slip-resistant rubber-grip handle
- Top and bottom hooks rotate 360°: top hook articulates, for flexibility in hard-to-reach places



L5H Series Specifications

Model	Capacity		# Falls	Pull to Lift Rated Load		Chain Size mm	Chain Weight per Foot		Shipping Weight with 10' of Lift	
	lb	metric tons		lb	kg		lb	kg	lb	kg
L5H150	1,650	0.75	1	35	15.9	6.3 x 19.2	0.6	0.3	16	7.3
L5H200	2,000	1*	1	43	19.5	6.3 x 19.2	0.6	0.3	16	7.3
L5H300	3,300	1.50	1	40	18.2	7.1 x 21.2	0.7	0.3	24	10.9
L5H400	4,000	2*	1	49	22.3	7.1 x 21.2	0.7	0.3	24	10.9
L5H600	6,600	3	1	73	33.2	9 x 27.2	1.2	0.5	38	17.3
L5H1200	13,200	6	2	77	35.0	9 x 27.2	2.4	1.1	61	27.7

* U.S. tons 2,000 lb. rating for the 1 ton and 2 ton models only.

L5H Series Dimensions

Model	A (min)	B	C	D	E
L5H150	12.3	6	5	10.1	1.1
L5H200	12.3	6	5	10.1	1.1
L5H300	13.8	6.6	5.8	14.5	1.3
L5H400	13.8	6.6	5.8	14.5	1.3
L5H600	16.8	7.9	7.1	14.5	1.7
L5H1200	22.3	7.9	9.5	14.5	1.9

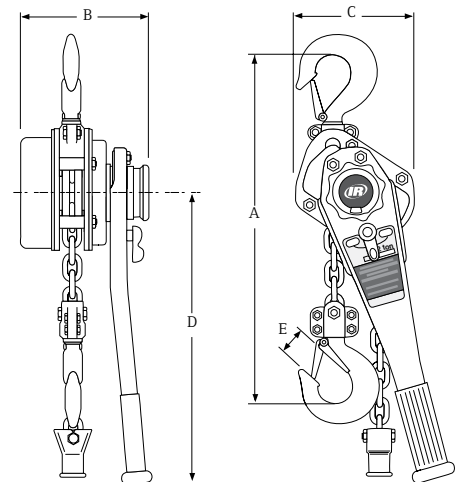
Dimensions are subject to change.

► HOW TO ORDER

Example: Base Model L5H150 - Lift 30 - Option V

S*COR*E load chain = N
 Overload protection = V
 Bullard bottom hook = B (available up to 2 ton only)

Note: S*COR*E options provide improved protection, durability and performance for hoist operating in corrosive or harsh environments or where additional spark resistance is desirable.



LV Classic Series lever chain hoists

0.75 to 6 metric ton line pull capacities

Features

A rugged, dependable lever chain hoist with capacities and features that make it ideal for all industrial lifting, pulling, and positioning applications.

- Forged steel alloy load hooks have wide throat openings with slip-resistant barbed tips to better retain slings

Improved performance

- Minimal effort in compact design
- Heat-treated gears and pinions
- 360° rotation handle needs only 15° handle movement to ratchet and position loads. A big plus in tight places
- Responsive load control through six pinion gear teeth and a four pocket load sheave
- Easy free chaining operation
- Single fall, 3 ton model for increased portability
- Double reduction gearing for superior spotting characteristics
- A comfortable slip resistant rubber grip handle — even with a glove

Rugged construction

- Meets ASME B30.21 and HST-3M design and performance standards
- High-strength, cold-formed, all stamped steel construction decreases weight while increasing external impact resistance
- Open frame design for easy cleaning and inspection
- Grade 100 alloy chain



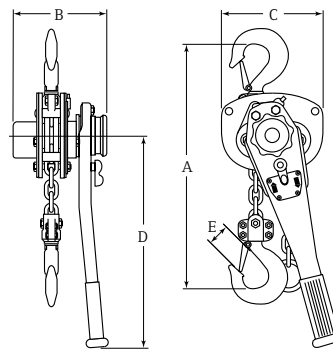
LV Series Specifications

Model	Capacity		# Falls	Pull to Lift Rated Load		Chain Size mm	Chain Weight per Foot		Shipping Weight with 10' of Lift	
	lb	metric tons		lb	kg		lb	kg	lb	kg
LV150	1,650	0.75	1	35	15.9	6.3 x 19.2	0.6	0.3	16	7.3
LV300	3,300	1.50	1	40	18.2	7.1 x 21.2	0.7	0.3	24	10.9
LV600	6,600	3	1	73	33.2	9 x 27.2	1.2	0.5	38	17.3
LV1200	13,200	6	2	77	35	9 x 27.2	2.4	1.1	61	27.7

LV Series Dimensions (in)

Model	A (min)	B	C	D	E
LV150	11.6	5.8	5	9.8	1.1
LV300	12.8	6.4	5.8	14.2	1.3
LV600	15.6	7.6	7.1	14.2	1.7
LV1200	23.2	7.6	9.3	14.2	1.9

Note: Dimensions are subject to change.



New Option "L" Aircraft Handling, Free Chain Lockout Kits¹

Part No.	Used on Models
LV150-KLOCK	All LV150
LV300-KLOCK	All LV300
LV600-KLOCK	All LV600 and LV1200



Note: (1) Kits replace free chain latch on LV models with a fixed member prohibiting disengagement and the ability to free chain.

► HOW TO ORDER

Example: Base Model - Lift 10 Option L
LV300- -

- S*COR*E load chain = N
- Aircraft handling, free chain lockout = L
- Bottom bullard hook = B (available up to 1.50 ton only)

Note: S*COR*E options provide improved protection, durability and performance for hoist operating in corrosive or harsh environments or where additional spark resistance is desirable.

SLB Silver Series lever chain hoists

0.75 to 6 metric ton line pull capacities

Ingersoll Rand SLB Silver Series lever hoists offer the ultimate in performance, durability, and safety for a variety of demanding applications. The high-strength, all-stamped steel construction offers decreased weight and better impact resistance. The automatic inertia brake engages if load is applied in free-chain mode, helping minimize operator setup error.

- Open-frame design for easy cleaning and inspection
- Encased and retained roller bearings for increased efficiency and ease of maintenance
- Premium-grade alloy load chain
- Hardened swivel-latch hooks
- Nickel-/ chrome-plated exterior and zinc-plated frame components for increased corrosion resistance
- Double reduction gearing for superior spotting characteristics and low handle effort
- Deep lug knobs for easy one-handed operation with or without gloves
- Short handle and stroke allows 360° operation for rigging in tight spaces

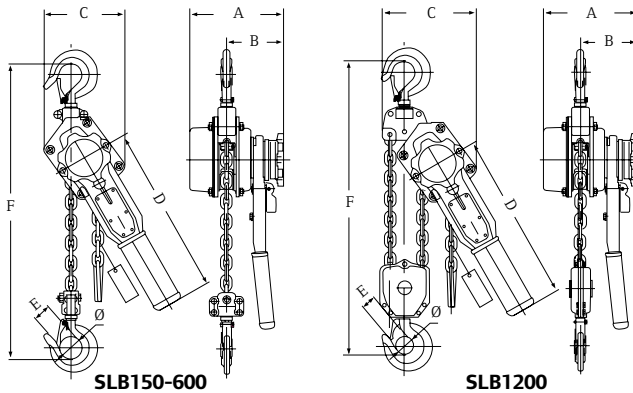


Double chain guides for proper load chain tracking and smooth operation around load sheave

CE Certified; hoists meet or exceed regional requirements including ASMEB30.21, HST-3M



SHIPYARD HOOK



► HOW TO ORDER

Example: Base Model - Lift Option
 SLB200 - 20 B

Bullard bottom hook = B (available up to 1.50 ton only)

Shipyards hooks (top and bottom) = S
 1.50 and 3 ton units only

SLB Series Dimensions (in)

Model	A	B	C	D	E	F (min)	Ø
SLB150	6.2	3.6	5.2	12.1	1.1	13	1.5
SLB200	6.4	3.7	5.5	12.1	1.3	14.4	1.6
SLB300	7.3	4.2	5.7	14.9	1.4	15.7	1.8
SLB300-S	7.3	4.2	5.7	14.9	1.4	16.8	1.8

Model	A	B	C	D	E	F (min)	Ø
SLB600	8.4	4.6	7.8	16.5	1.7	20.5	2.2
SLB600-S	8.4	4.6	7.8	16.5	1.7	21.5	2.3
SLB1200	8.4	4.6	9.1	16.5	2	25.2	2.6

SLB Series Specifications

Model	Capacity		# Falls	Pull to Lift Rated Load		Chain Size mm	Chain Weight per Foot		Shipping Weight with 10' of Lift	
	lb	metric tons		lb	kg		lb	kg	lb	kg
SLB150	1,650	0.75	1	41	18.6	6 x 18	0.5	0.2	16	7.3
SLB200	2,200	1	1	60	27.3	6 x 18	0.5	0.2	16	7.3
SLB300	3,300	1.50	1	53	24.1	7.1 x 21.2	0.7	0.3	26	11.8
SLB600	6,600	3	1	53	24.1	10 x 30	1.5	0.7	46	20.9
SLB1200	13,200	6	2	57	25.9	10 x 30	2.9	1.3	69	31.4

Air Chain Hoists



Air chain hoists are the ideal choice when high speed, high duty-cycle, precision spotting, and the ability to operate in harsh environments are the determining factors. No one knows air chain hoists like Ingersoll Rand.

We offer the broadest range of air chain hoists in the world - combining the best of Ingersoll Rand and ARO. This section highlights our offering of production hoists ranging in capacity from 0.25 to 6 metric tons.

The MLK and HLK Series hoists have proven themselves for years in the most difficult environments. The 7700 and 7790 Series hoists are renowned for exceptional speed and load control. Palair Series hoists feature unique lube-free gear motors, plus a food grade configuration.

Our sales team and channel partners are available to help with selection, related accessories, and options to provide the optimal solution to your lifting and positioning challenges. Spare parts and our authorized service centers are there to keep them running in peak condition.

Visit our website at www.ingersollrandproducts.com to see our high-capacity chain hoists (up to 200 metric tons) and other products.

Air chain hoists selection guide

Model	Lifting Capacity		# Falls	Lifting Speed		Lowering Speed		Hook Mount		Trolley Mount		Shipping Weight		Page No.
	lb	metric tons		ft/min	m/min	ft/min	m/min	in	mm	in	mm	lb	kg	
MLK SERIES AND HLK SERIES														
ML250K	550	0.25	1	101	30.8	117	35.7	18	457.2	18	457.2	48	21.8	20
ML250KS	550	0.25	1	40	12.2	90	27.4	18	457.2	18	457.2	48	21.8	20
ML250KR	550	0.25	1	26	7.9	38	11.6	18	457.2	18	457.2	48	21.8	20
ML500K	1,100	0.50	1	55	16.8	97	29.6	18	457.2	18	457.2	48	21.8	20
ML500KS	1,100	0.50	1	22	6.7	66	20.1	18	457.2	18	457.2	48	21.8	20
ML500KR	1,100	0.50	2	13	4	20	6.1	18	457.2	18	457.2	61	27.7	20
ML1000K	2,200	1	2	28	8.5	49	14.9	18	457.2	18	457.2	61	27.7	20
ML1000KS	2,200	1	2	11	3.4	33	10.1	18	457.2	18	457.2	61	27.7	20
HL1000K	2,200	1	1	26	7.9	37	11.3	18.5	469.9	18.1	460.5	84	38.1	20
HL1000KR	2,200	1	1	26	7.9	37	11.3	18.5	469.9	18.1	460.5	84	38.1	20
HL1500K	3,300	1.50	1	16	4.9	26	7.9	18.8	477.5	18.9	479.5	84	38.1	20
HL2000K	4,400	2	2	13	4	18	5.5	23	584.2	21.6	549.4	125	56.7	20
HL3000K	6,600	3	2	8	2.4	13	4	25	635	22.6	574.8	125	56.7	20
HL4500K	10,000	4.50	3	4.6	1.4	10	3.1	30.9	784.4	28	711.2	193	87.5	20
HL6000K	13,200	6	4	3.5	1.1	7.6	2.3	36.2	919.2	32.2	817.6	248	112.5	20
PALAIR SERIES														
PAL250K	550	0.25	1	66	20.1	75	22.9	15.3	387.4	17.8	450.9	33	15	29
PALP250K	550	0.25	1	66	20.1	75	22.9	15.3	387.4	17.8	450.9	33	15	29
PAL500K	1,100	0.50	1	44	13.4	88	26.8	15.3	387.4	17.8	450.9	33	15	29
PALP500K	1,100	0.50	1	44	13.4	88	26.8	15.3	387.4	17.8	450.9	33	15	29
PAL1000K	2,200	1	2	22	6.7	44	13.4	17.5	444.5	20	507.2	39.5	17.9	29
PALP1000K	2,200	1	2	22	6.7	44	13.4	17.5	444.5	20	507.2	39.5	17.9	29
PALP315K	690	0.315	1	53	16.2	80	24.4	15.3	387.4	17.8	450.9	33	15	29
PALP630K	1,380	0.63	2	26	7.9	40	12.2	17.5	444.5	20	507.2	39.5	17.9	29
7700 AND 7790 SERIES														
7770E	275	0.125	1	110	33.5	275	83.8	17	432	16.9	428	41	18.6	34
7718E	550	0.25	1	82	25	224	68.3	17	432	16.9	428	41	18.6	34
7756E	1,100	0.50	1	41	12.5	112	34.1	17	432	16.9	428	41	18.6	34
7776E	2,200	1	2	21	6.4	56	17.1	21.7	551	20.5	521	53	24	34
7790A	2,200	1	1	26	7.9	44	13.4	18.9	479	15	381	62	28.1	34
7792A	4,400	2	2	12	3.7	24	7.3	22.4	568	18	457	81	36.7	34
7712EL	550	0.25	1	50	15.2	70	21.3	17	432	17.1	435	41	18.6	34
7714EL	1,500	0.68	2	16	4.9	16	4.9	17	432	17.1	435	41	18.6	34
7796AL	1,500	0.68	1	16	4.9	16	4.9	18.9	479	15	381	62	28.1	34
7798AL	2,400	1.10	2	12	3.7	12	3.7	22.4	568	18	457	81	36.7	34
7799AL	3,000	1.36	2	7	2.1	7	2.1	22.4	568	18	457	81	36.7	34
7720E	400	0.18	1	100	30.5	202	61.6	15.9	403	16	406	41	18.6	34
7708E	800	0.36	1	50	15.2	101	30.8	15.9	403	16	406	41	18.6	34
7732E	2,200	1	2	25	7.6	51	15.5	21.7	551	21.3	540	53	24	34

All Ingersoll Rand Series hoists meet or exceed ASME/ANSI B30.16 standards. Please consult factory for hoists that meet the European machinery directive (EC) and carry the CE mark. All Palair Series have lube-free gear motors. PALP Series are food-grade models.

Choosing the right hoist

Material handling needs differ from application to application. Ingersoll Rand offers numerous hoist types with a range of options that can be matched to meet your specific requirements. When the time comes to select the appropriate hoist for your needs, consider the following criteria:

Maximum load

Consider the maximum load the hoist will need to accommodate. Ingersoll Rand hoists have weight ratings from 275 lb to 6 tons. Consider hoist speed. The speed requirement of a hoist is dependent on the corresponding cycle time of the task to be performed – lift, transport, lower, return, start again.

Installation requirements

Ingersoll Rand hoists, whether hook or trolley, can be mounted on several beam configurations. Compact for low headroom requirements, these hoists can be mounted in areas where others can't.

Air supply

To ensure maximum operating performance, Ingersoll Rand rotary-vane air hoists (except Palair Series) require air supplies that continually provide clean, lubricated air at sufficient pressure and volume. Ingersoll Rand hoists require 90 psig at 65 to 70 scfm.

Control method

Our rotary-vane air hoists control lift and descent by admitting proportional amounts of air to the motor through a valve. Ingersoll Rand offers two control systems:

1. Pendant control system — a 3-hose pilot pressure / bleed system opens and throttles the valve.
2. Pull-chain system — operator-controlled pull chains attached to arm open and close the valve.



MLK and HLK Series

0.25 to 6 metric ton lifting capacities

Benefits

- 100 percent duty cycle enables continuous operation
- Dust, dirt, moisture, and corrosive gases kept out of the motor by air pressure — ideal for foundries and electro-plating applications
- Minimum chance of electrical shock makes air hoists ideal for highly flammable environments such as chemical plants and refineries; spark-resistant models also available
- Simple pull-chain speed and directional controls provide precise load-spotting capabilities; easy-to-operate pendent air valves provide a variable control signal with adjustable response by a variable orifice. For more precise control, MLKS slow-speed models are available
- Motor, brake, and throttle parts are interchangeable with all current Ingersoll Rand air chain hoists
- Ingersoll Rand air chain hoists are designed and constructed for trouble-free maintenance

Top and bottom latch-type swivel hooks

meet OSHA requirements and are supported by anti-friction roller bearings (Bullard Burnham hooks are available for all models, except spark-resistant)

Manual brake release kit allows operators to safely lower a suspended load in a power failure

Air-operated, non-asbestos, self-adjusting disc brake balances effort to motor torque by sensing air pressure in the valve chest, providing precise control and eliminating back-drop encountered with some mechanical brakes; if air supply is interrupted, pressure release causes instantaneous, automatic braking

Heat-treated planetary gearing system provides high-torque capability by splitting the torque path, thereby dividing and balancing the load over more teeth, assuring longer life and reduced maintenance

A small amount of exhaust air flows over chain and drive wheel to help lubricate chain from spent in-line lubrication of motor

Slack chain is guided into drive wheels by a specially designed opening that prevents dangerous cross-linking

Upper and lower limit stops prevent dangerous over-travel of the hook in either direction, reducing possible damage to hoist or load

Fabric or metal container keeps slack chain out of the way

Standard link load chain is zinc-plated steel; stainless steel chain available for 0.25-ton through 1-ton spark-resistant models

Two-piece, single-line hook block entraps chain links and hook bearing without using small load-bearing pins or fasteners

All bearings are either ball- or roller-type to minimize friction

An internal muffler reduces sound levels to 85 dBA; woven to prevent corrosion and clogging

Inlet swivel and strainer are combined for easy hookup from any direction — swivel reduces hose fatigue, especially on hook-mounted units; strainer nipple provides extra assurance of clean air for maximum wear protection

Precision throttle valves for smooth operation and metering of air; valves are poppet-type for ease of maintenance

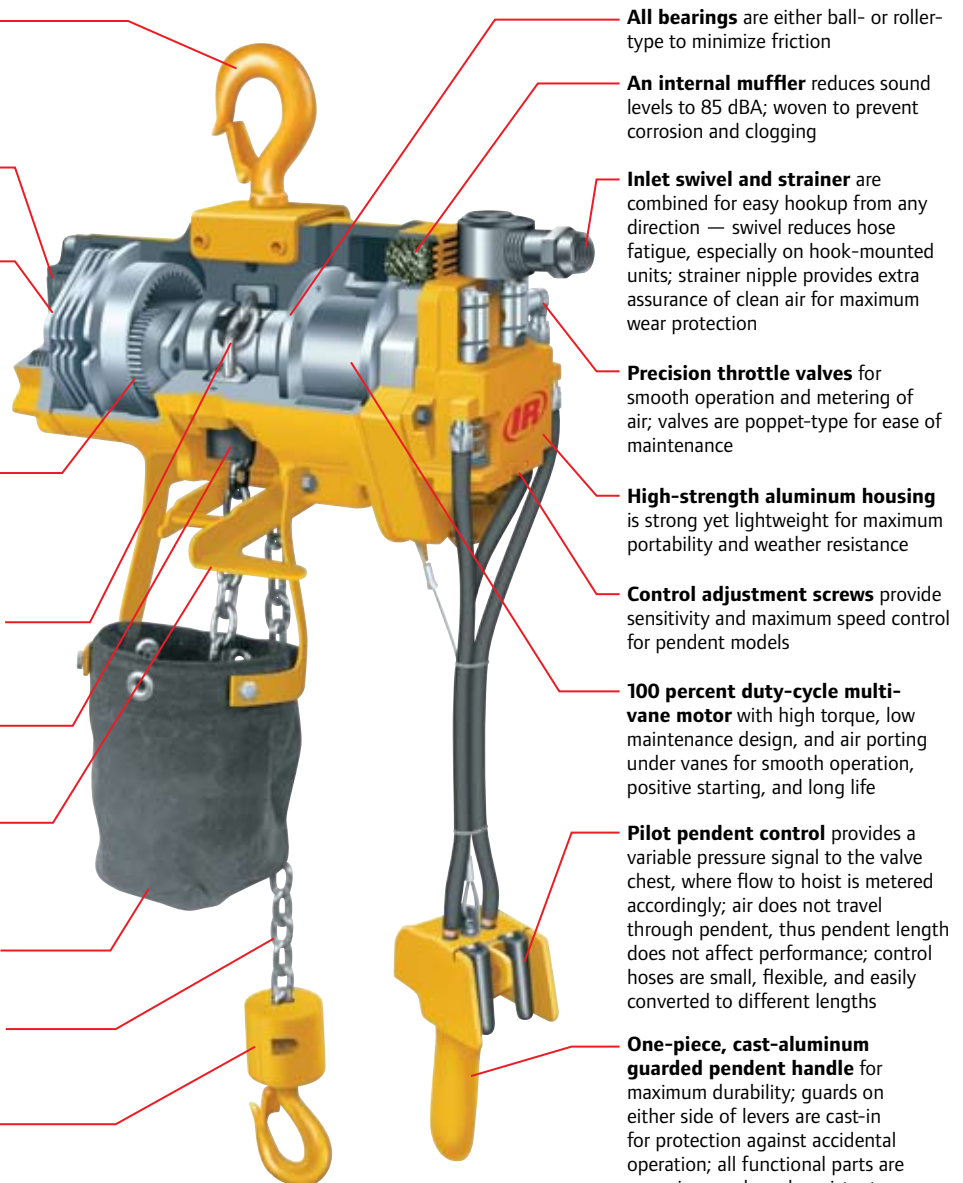
High-strength aluminum housing is strong yet lightweight for maximum portability and weather resistance

Control adjustment screws provide sensitivity and maximum speed control for pendent models

100 percent duty-cycle multi-vane motor with high torque, low maintenance design, and air porting under vanes for smooth operation, positive starting, and long life

Pilot pendent control provides a variable pressure signal to the valve chest, where flow to hoist is metered accordingly; air does not travel through pendent, thus pendent length does not affect performance; control hoses are small, flexible, and easily converted to different lengths

One-piece, cast-aluminum guarded pendent handle for maximum durability; guards on either side of levers are cast-in for protection against accidental operation; all functional parts are corrosion- and spark-resistant



MLK Series and HLK Series

0.25 to 6 metric ton lifting capacities

Features

MLK Series

The Ingersoll Rand MLK family of hoists is suitable for A5 / H5 severe-duty use in the 0.25 to 1 metric ton range. The MLK Series is designed to be used as a high-speed production hoist; the MLKS* is better suited for slow-speed spotting.

HLK Series

The HLK Series incorporates a larger chain wheel to accommodate 3/8" diameter chain and a lower gear ratio to handle increased load capacities. HLK Series hoist capacities range from 1 to 6 metric tons and are severe-duty rated. Refer to the trolley section on page 61 for plain, geared, and motorized trolleys.

Spark-resistant features

MLKR and HLKR spark-resistant hoists have been designed to give maximum protection in explosive and other hazardous environments.

Components for spark-resistance include:

- Bronze hooks
- Bronze trolley wheels
- Stainless-steel (one part reeving) or aluminum (two parts reeving) lower hook blocks
- Aluminum stop ring (1/4-ton models)
- Stainless-steel load chain
- Stainless-steel pendent levers and bronze valve caps

The load capacity and speeds of MLKR and HLKR Series units are reduced. A restricted motor is used to accomplish this, as stainless-steel chain is not hardened and strength is less than standard alloy chain.



MLK and HLK Series

0.25 to 6 metric ton lifting capacities

MLK and HLK Specifications (performance at 90 psi, 6.3 bar)

Model	Capacity			Hook Mount Headroom		Trolley Mount Headroom		Lifting Speed				Lowering Speed				Chain Size	Chain Weight (per foot of lift)		Net Weight w/10 ft of Lift	
	lb	metric tons	# Falls	in	mm	in	mm	Rated Load ft/min	No Load m/min	ft/min	m/min	Rated Load ft/min	No Load m/min	ft/min	m/min		lb	kg	lb	kg
ML250K	550	0.25	1	18	457.2	18	457.2	101	30.8	171	52.1	117	35.7	99	30.2	6.4 x 19.5	0.6	0.3	48	21.8
ML250KS	550	0.25	1	18	457.2	18	457.2	40	12.2	71	21.6	90	27.4	53	16.2	6.4 x 19.5	0.6	0.3	48	21.8
ML250KR	550	0.25	1	18	457.2	18	457.2	26	7.9	42	12.8	38	11.6	30	9.1	6.4 x 19.5	0.6	0.3	48	21.8
ML500K	1,100	0.50	1	18	457.2	18	457.2	55	16.8	106	32.3	97	29.6	59	18	6.4 x 19.5	0.6	0.3	48	21.8
ML500KS	1,100	0.50	1	18	457.2	18	457.2	22	6.7	44	13.4	66	20.1	32	9.8	6.4 x 19.5	0.6	0.3	48	21.8
ML500KR	1,100	0.50	2	18	457.2	18	457.2	13	4	21	6.4	20	6.1	15	4.6	6.4 x 19.5	1.1	0.5	61	27.7
ML1000K	2,200	1	2	18	457.2	18	457.2	28	8.5	53	16.2	49	14.9	30	9.1	6.4 x 19.5	1.1	0.5	61	27.7
ML1000KS	2,200	1	2	18	457.2	18	457.2	11	3.4	22	6.7	33	10.1	16	4.9	6.4 x 19.5	1.1	0.5	61	27.7
HL1000K	2,200	1	1	18.5	469.9	18.1	459.7	26	7.9	40	12.2	37	11.3	26	7.9	9.5 x 25.7	1.3	0.6	84	38.1
HL1000KR	2,200	1	1	18.5	469.9	18.1	459.7	26	7.9	40	12.2	37	11.3	26	7.9	9.5 x 25.7	1.3	0.6	84	38.1
HL1500K	3,300	1.50	1	18.8	477.5	18.9	480.1	16	4.9	28	8.5	26	7.9	16	4.9	9.5 x 25.7	1.3	0.6	84	38.1
HL2000K	4,400	2	2	23	584.2	21.6	548.6	13	4	20	6.1	18	5.5	13	4	9.5 x 25.7	2.6	1.2	125	56.7
HL3000K	6,600	3	2	25	635	22.6	574	8	2.4	14	4.3	13	4	8	2.4	9.5 x 25.7	2.6	1.2	125	56.7
HL4500K	9,900	4.50	3	30.9	784.9	28	711.2	4.6	1.4	10.5	3.2	10	3.1	6.6	2	9.5 x 25.7	3.9	1.8	193	87.5
HL6000K	13,200	6	4	36.2	919.5	32.2	817.9	3.5	1.1	8.4	2.6	7.6	2.3	4.8	1.5	9.5 x 25.7	5.2	2.4	248	112.5

Working pressure from 5 to 7 bar (70 to 100 psi). Air Consumption @ rated load - ML250KS, ML250KR, ML500KS, ML500KR, ML1000KS = 1.27m³ (45 cfm) all other models = 1.98m³ (70 cfm). Air inlet 1/2" NPT. Sound level 85 dBA.

Trolley Mount Specifications

Model	Trolley type	Capacity metric tons	Minimum Headroom		Trolley Speed at Rated Load		Air Consumption @ Rated Load		Trolley Flange Adjustment		Minimum Curve Radius		Air Inlet	Net Weight w/10 ft of Lift	
			in	mm	ft/min	m/min	ft ³ /min	m ³ /min	in	mm	ft	m		lb	kg
ML250K, KS, KR	Plain	0.25	18	457	-	-	-	-	2.66-12	68-305	3.5	1.1	-	68	31
	Gear	0.25	18	457	-	-	-	-	2.66-12	68-305	3.5	1.1	-	71	32
	Motor	0.25	18	457	95	29	35	1	2.66-12	68-305	3.5	1.1	1/4	78	35
ML500K, KS, KR	Plain	0.50	18	457	-	-	-	-	2.66-12	68-305	3.5	1.1	-	68	31
	Gear	0.50	18	457	-	-	-	-	2.66-12	68-305	3.5	1.1	-	71	32
	Motor	0.50	18	457	95	29	35	1	2.66-12	68-305	3.5	1.1	1/4	78	35
ML1000K, KS	Plain	1	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	81	37
	Gear	1	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	84	38
	Motor	1	17	432	93	28	35	1	2.66-12	68-305	3.5	1.1	1/4	91	41
HL1000K, KR	Plain	1	18	457	-	-	-	-	3.25-12	83-304	3.5	1.1	-	106	48
	Gear	1	18	457	-	-	-	-	3.25-12	83-304	3.5	1.1	-	109	50
	Motor	1	18	457	93	28	35	1	3.25-12	83-304	3.5	1.1	1/4	116	53
HL1500K	Plain	1.50	18	457	-	-	-	-	3.25-12	83-304	3.5	1.1	-	106	48
	Gear	1.50	18	457	-	-	-	-	3.25-12	83-304	3.5	1.1	-	109	50
	Motor	1.50	18	457	84	25	35	1	3.25-12	83-304	3.5	1.1	1/4	116	53
HL2000K	Plain	2	22	559	-	-	-	-	3.25-12	83-304	3.5	1.1	-	203	92
	Gear	2	22	559	-	-	-	-	3.25-12	83-304	3.5	1.1	-	206	94
	Motor	2	22	559	80	24	35	1	3.25-12	83-304	3.5	1.1	1/4	213	97
HL3000K	Plain	3	23	584	-	-	-	-	3.25-12	83-304	3.5	1.1	-	203	92
	Gear	3	23	584	-	-	-	-	3.25-12	83-304	3.5	1.1	-	206	94
	Motor	3	23	584	71	22	35	1	3.25-12	83-304	3.5	1.1	1/4	213	97
HL4500K	Plain	4.50	27	686	-	-	-	-	4.25-7.25	108-184	5	1.5	-	392	178
	Gear	4.50	27	686	-	-	-	-	4.25-7.25	108-184	5	1.5	-	395	180
	Motor	4.50	27	686	60	18	35	1	4.25-7.25	108-184	5	1.5	1/4	402	182
HL6000K	Plain	6	29	737	-	-	-	-	4.25-7.25	108-184	5	1.5	-	442	201
	Gear	6	29	737	-	-	-	-	4.25-7.25	108-184	5	1.5	-	445	202
	Motor	6	29	737	45	14	35	1	4.25-7.25	108-184	5	1.5	1/4	452	205

Working pressure from 5 to 7 bar (70 to 100 psi).

Hoist accessories for MLK and HLK Series

Chain Container

Series	Chain Capacity* ft	Metal Container Part Number	Fabric Container Part Number
MLK	13	ML10-K749	N/A
MLK	17	N/A	ML50K-K749-17
MLK	26	ML20-K749A	N/A
MLK	40	ML20-K749-20	N/A
MLK	45	N/A	ML50K-K749-45
MLK	80	MLK-K750-80	N/A
HLK	20	HLK-K750-20	HLK-K749-20
HLK	40	HLK-K750-40	HLK-K749-40
HLK	85	HLK-K750-80	N/A

*Chain containers are for one-part single lines. For two-part lines, divide capacity by two; for three-part lines by three, etc.



Metal Container



Fabric Container

Hooks

Series	Capacity metric tons	Bullard-Burnham Top Or Bottom Part Number	Bronze Latch Type* Top Or Bottom Part Number
MLK	0.25	CE110-KBB377	MLK-KRS304
MLK	0.50	CE110-KBB377	ML500KR-K377
MLK	1	CE120-KBB377	N/A
HLK	1	HLK-ABB377	HLK-SR377
HLK	1.50	HLK-ABB377	HL1500K-SR377
HLK	2	HL2000K-ABB377	HL2000K-SR377
HLK	3	HL3000K-ABB377	HL3000K-SR377
HLK	4.50	HL4500K-ABB377	HL4500K-SR377
HLK	6	HL6000K-ABB377	HL6000K-SR377



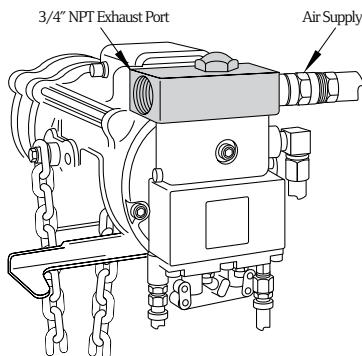
Bullard-Burnham hook

Bullard-Burnham hooks are not available for spark-resistant models.
*Not pictured.

Piped-away Exhaust Kits for MLK Series and HLK Series Hoists

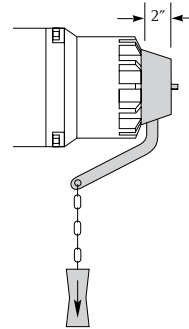
Part Number MHLK-KEXH

This two-piece kit replaces swivel air inlet on hoist. Noise is reduced with addition of piped-away exhaust hose. Use 1" diameter exhaust hose to minimize reduction in lift speed.



Manual Brake Release Kit (M)

For all MLK Series and HLK Series hoists. Part number MLK-K390.



Hose Trolleys

Part Number	Flange Width in
7703	2.33 to 5
D10-8888	5 to 8.75

Maximum hanging weight per unit is 35 lb; each can be adjusted to fit 1/2" to 1-1/4" O.D. hoses.



7703

Air Chain Hoists

Hoist accessories for MLK and HLK Series

Pendent Handles

Type / Part Number	NPT Air Inlet			
	A in	B in	C in	D in
SINGLE-MOTOR				
MLK-A269C	1/8	1/8	N/A	N/A
EZG-A269	3/8	1/8	N/A	N/A
MR-269C	3/8	3/8	N/A	N/A
C6H20A-A169B	1/2	1/2	N/A	N/A
TWO-MOTOR				
PILOT-A122B	3/8	1/8	1/8	N/A
MLK-K122B	3/8	1/8	3/8	N/A
MR-A122C	3/8	3/8	3/8	N/A
C6H20A-A122B	1/2	1/2	3/8	N/A
THREE-MOTOR				
PILOT-A132B	3/8	1/8	1/8	1/8
MLK-K132B	3/8	1/8	3/8	3/8
MR-A132C	3/8	3/8	3/8	3/8
C6H20A-A132B	1/2	1/2	3/8	3/8

When a pendent-controlled hoist is purchased with a pendent-controlled power trolley or tractor, the required two- or three-motor pendent is furnished at no extra cost in place of an individual pendent, when specified.

Link Load Chain

Series	Type	Bulk Part Number	Chain Size Diameter / Pitch mm
MLK	Zinc-plated*	M745Z	6.4 x 19.5
MLK	Stainless steel**	M745S	6.4 x 19.5
HLK	Zinc-plated*	H745Z	9.5 x 25.7
HLK	Stainless steel**	H745S	9.5 x 25.7

*Standard.

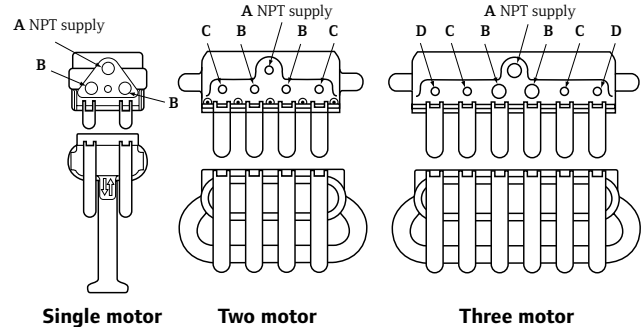
**For spark-resistant models only.

Pull Chain Conversion

Part Number	Description
MLK-K415A	Wooden directional and crossbar handles only
CA110-B240	Standard chain; specify total length of both chains
DO2-1413	Aluminum spark-resistant chain; specify total length of both chains

Pendent Conversion Kit

Part Number	Description
MLK-AL269C	MLK Series, HLK Series, and HLKR Series hoists; specify length



Single motor

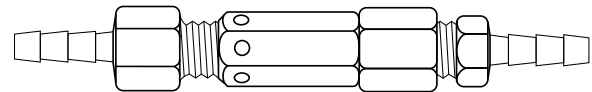
Two motor

Three motor

Quick Exhaust Valves

Part Number	For Use With	Control Type	Style	Pendent Length ft	Quantity Recommended*
20417	All MLK Series	Pilot	Push-on	21 - 50	2
20417	HLK Series hoists		1/4" NPT hose	51 - 75	4
MR-939-6	TIR Series trolleys	Full-flow	Push-on	21 - 50	2
MR-939-6	MTK Series tractors		3/8" NPT hose	51 - 75	4

*The first pair of full-flow valves will be installed between 5' and 7' from the pendent handle. Any additional valves will equally divide the remaining hose length.



Part number 20417. Part number MR-939-6 not shown.

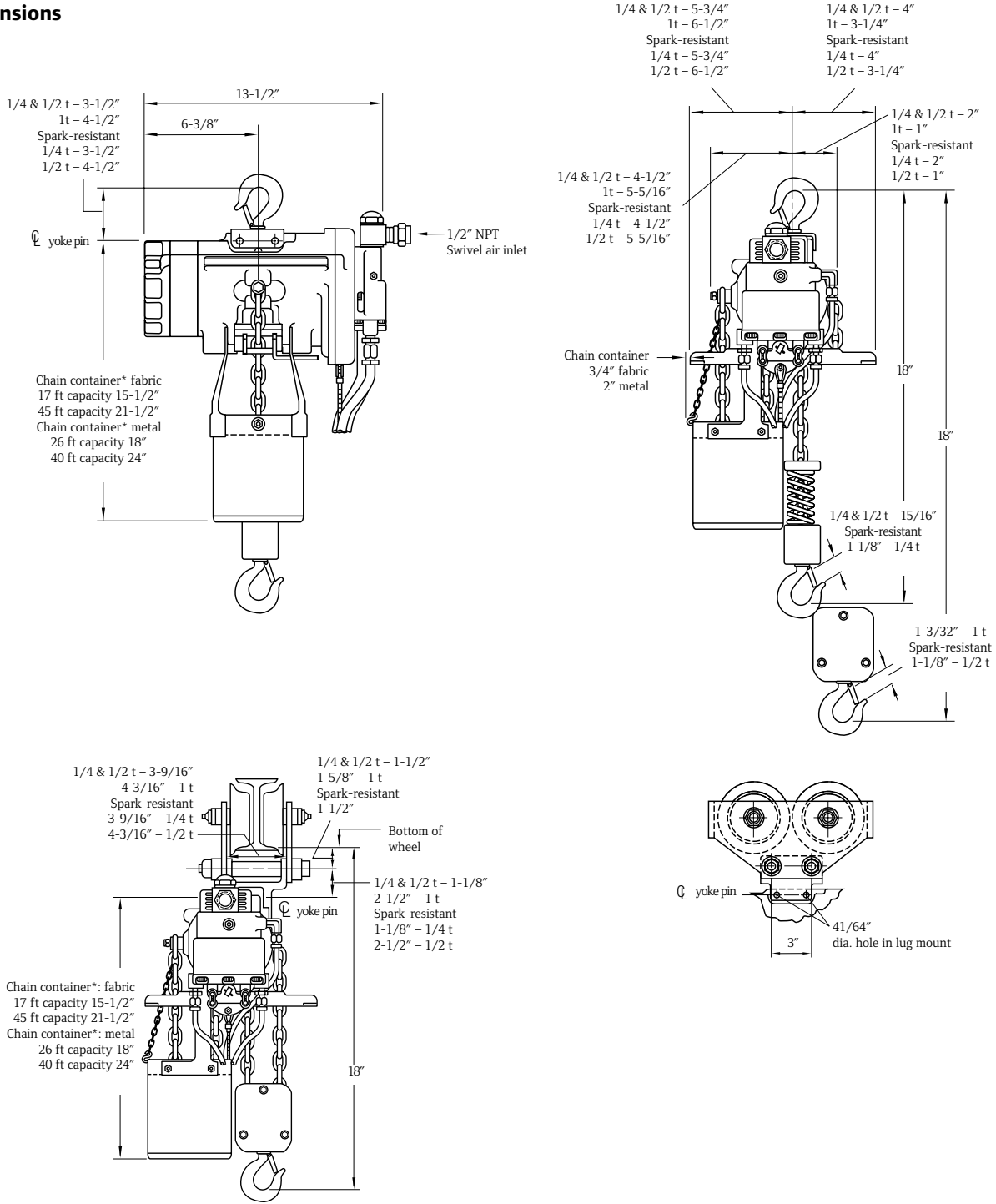
Drawbar Hitch Kits for Use with MTK Series Tractors

Series	Part Number
HL1000K, HL1500K, HL2000K and HL3000K with rigid trolley	No kit required; standard drawbar kit included with MTK Series tractors fits these hoists
MLK with rigid trolley	MR-K1

MLK, MLKS and MLKR Series

0.25 to 1 metric ton lifting capacities

Dimensions



*Chain container capacities are for one-part single lines. For two-part lines, divide capacity by two.

Air Chain Hoists

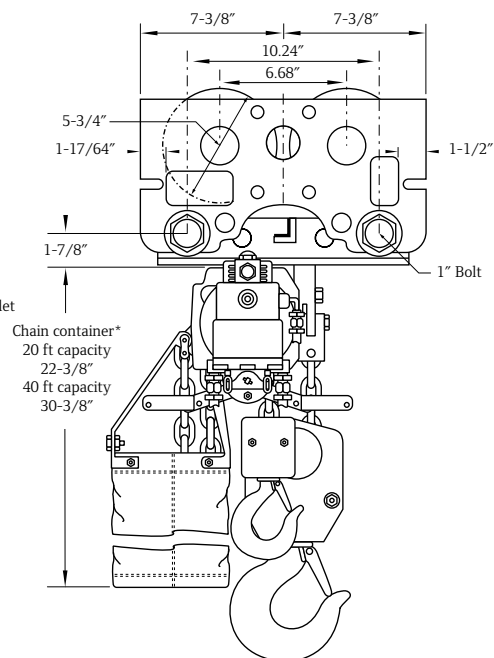
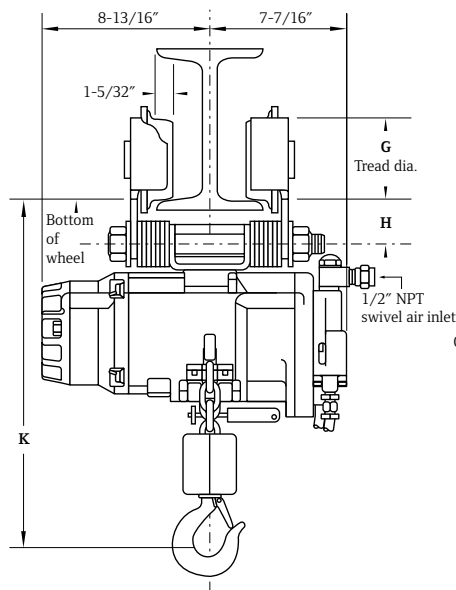
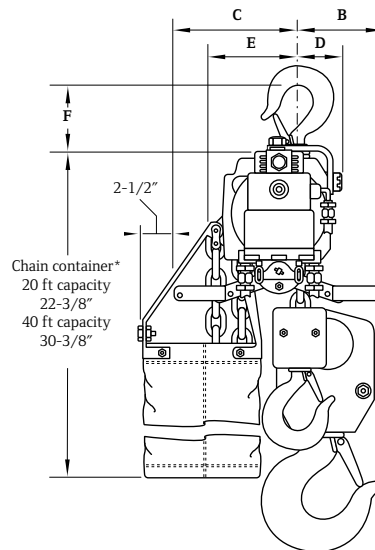
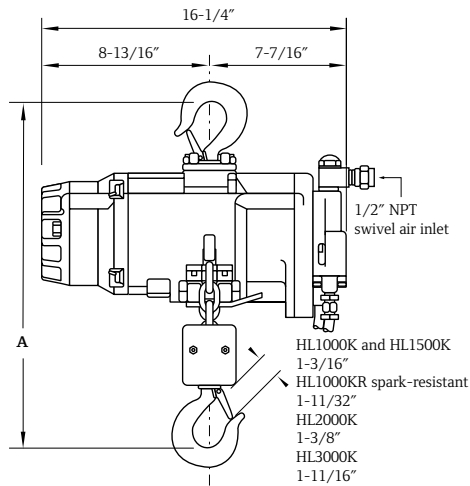
HLK and HLKR Series

1 to 3 metric ton lifting capacities

Dimensions

Series	A in	B in	C in	D in	Min E in	F in	G in	H in	K in
HL1000K/R	18.5	4.8	7.3	2.4	5.4	3.5	4.5	2.4	18.1
HL1500K	18.5	4.8	7.3	2.4	5.4	3.5	4.5	2.4	18.9
HL2000K	23	3.6	8.4	2.4	6.6	5.8	4.5	2.4	21.6
HL3000K	23	3.6	8.4	2.4	6.6	6.3	4.5	2.4	22.6

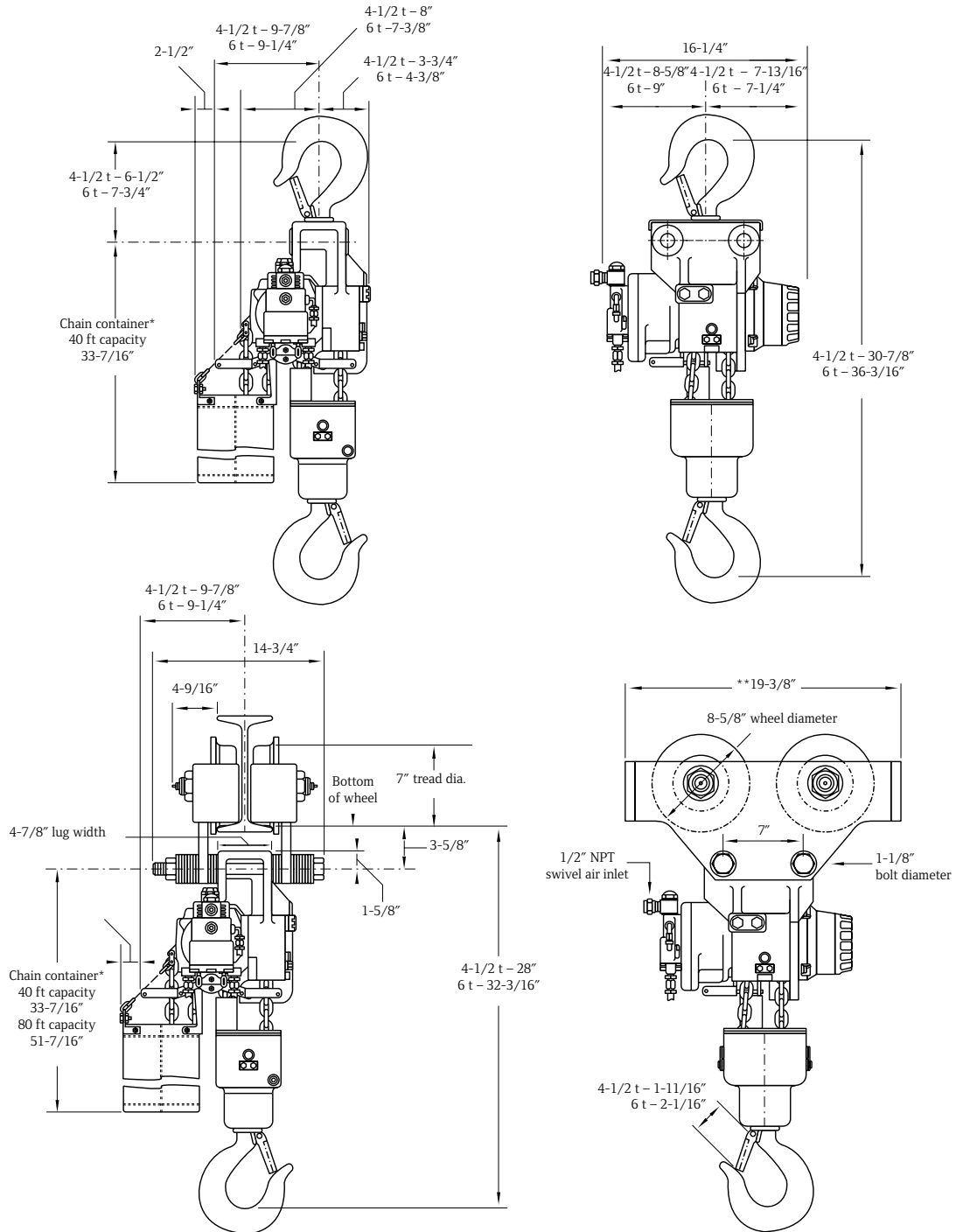
*Chain container capacities are for one-part single lines (1- and 1.50-ton). For two-part lines, divide capacity by two.



HLK Series

4.50 to 6 metric ton lifting capacities

Dimensions



*Chain container capacities are for single-line. For three-part 4.50-ton units, divide capacity by three. For four-part 6-ton units, divide capacity by four.
 **For additional geared and motorized trolley dimensions refer to dimensions in the TIR Series trolley section.

Air Chain Hoists

MLK and HLK Series

0.25 to 6 metric ton lifting capacities

► HOW TO ORDER

Specify hoist by complete model number code as illustrated below. If a trolley is required, specify beam size, type and flange width. Specify accessories separately by part number. Note that 0 is a number, not a letter, in model part numbers.

Example: ML500KR-2R10R6U

M Series M = Series H = Series	L Link chain type	500K Capacity 250K = 250 kg = 550 lb 500K = 500 kg = 1,100 lb 1000K = 1,000 kg = 2,200 lb 1500K = 1,500 kg = 3,300 lb 2000K = 2,000 kg = 4,400 lb 3000K = 3,000 kg = 6,600 lb 4500K = 4,500 kg = 10,000 lb 6000K = 6,000 kg = 13,200 lb	R Control 0 = No controls 1 = Pull chain 2 = Pendant 3 = 2 Motor pendant ⁽¹⁾ 4 = 3 Motor pendant ⁽¹⁾	-	2 Control 0 = No controls 1 = Pull chain 2 = Pendant 3 = 2 Motor pendant ⁽¹⁾ 4 = 3 Motor pendant ⁽¹⁾	R Lift (ft) 10 = 10 ft (standard) XX = Specify length	-	R Lower hook C = Steel snap hook CP = Copper-plated lower hook R = Bronze snap hook B = Bullard self-closing hook	6 Length of pull/chain or pendant control hose (ft) 6 = 10 ft (standard) XX = Specify length	U Options CR = Copper-plated bottom block M = Manual brake release kit P = Piped away exhaust S = Steel chain container U = Fabric chain container E = Epoxy paint
--	---	--	--	----------	--	--	----------	--	---	---

Spark-resistant R = Add for spark-resistant (0.25, 0.50 t MLKR and 1 t HLKR) S = Add for slow speed spotting (0.25, 0.50, 1 t MLKS)	Suspension A = Fixed lug B = Bullard hook (self closing) R = Bronze snap hook C = Swivel top hook CP = Copper-plated top hook DA ⁽³⁾ = Plain rigid trolley (universal wheels "A" flange) DD ⁽³⁾ = Plain rigid trolley (universal wheels "D" flange) FXXA ⁽²⁾⁽³⁾ = Hand geared trolley (universal wheels "A" flange) FXXD ⁽²⁾⁽³⁾ = Hand geared trolley (universal wheels "D" flange) HA ⁽³⁾ = Vane mtr. powered trolley (universal wheels "A" flange) HD ⁽³⁾ = Vane mtr. powered trolley (universal wheels "D" flange)
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NOTE:

(1) Required with "H" suspension.
 (2) XX = specify hand chain length if other than standard "08" (8 ft) required.
 (3) For solid bronze wheels on non-spark resistant models, add "R" to the end of the trolley suspension code. (See pages 20 and 21 for price.)

Lube-free Palair™ Series

0.25 to 1 metric ton lifting capacities

Standard PAL and PALP Features

- No oil mist is exhausted to the surrounding environment — excellent for food processing, textile industry, or any area where exhaust oil mist cannot be tolerated
- Gear motor made from a high-strength, durable composite material
- Two-moving-part motor provides high reliability and low maintenance
- Pendant allows variable up and down speeds
- Ergonomically designed, no external pipes or mechanical linkages
- Low pressure disc brake is spring-set, air-released, and self-adjusting
- Planetary gears for long life and high duty cycle
- High-strength polymer chain guide for fast, smooth running with minimum wear
- Upper and lower limit switches are enclosed and protected in the hoist body
- Load hooks rotate 360° on ball bearings for PAL or non-metallic bushings for PALP
- Internal air exhaust reduces sound levels to below 85 dBA

Premium PALP Series Features

Our Palair Premium Series is the first air chain hoist series in the United States to be approved by the USDA.

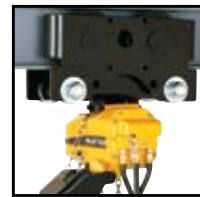
- USDA approval for meat and poultry equipment as listed in FSIS Directive 11220.1
- Corrosion-resistant materials
 - Electroless nickel — high-heat chemical treatment applied to aluminum components for high wear durability and no flaking
 - 300 series stainless steel — highly corrosion-resistant and used for load hooks, bottom blocks, and load chain
 - Nickel composite — FDA-approved proprietary finish for ferrous metals provides superior resistance to corrosion
- Combination of stainless steel or electroless nickel hooks, hook blocks, and chain provides spark and corrosion resistance
- The gear motor requires no air supply lubrication, so exhaust air is as clean and dry as the air supplied
- Gear case is sealed and uses USDA H-1 type grease
- All bearings are permanently lubricated and sealed on both sides
- Washable and steam-cleanable
- No paint chip flaking; non-metal parts are unpainted to prevent contamination

Premium Features

- Nickel composite plain hook-on PT-NC Series trolleys offer the same level of corrosion resistance as the hoist
- Stainless steel piped-away exhaust kit directs exhaust air away from the application
- Abrasion- and oil-resistant bright yellow pendant hose is highly visible, approved for food contact and easy to clean



Palair Plus with manual trolley

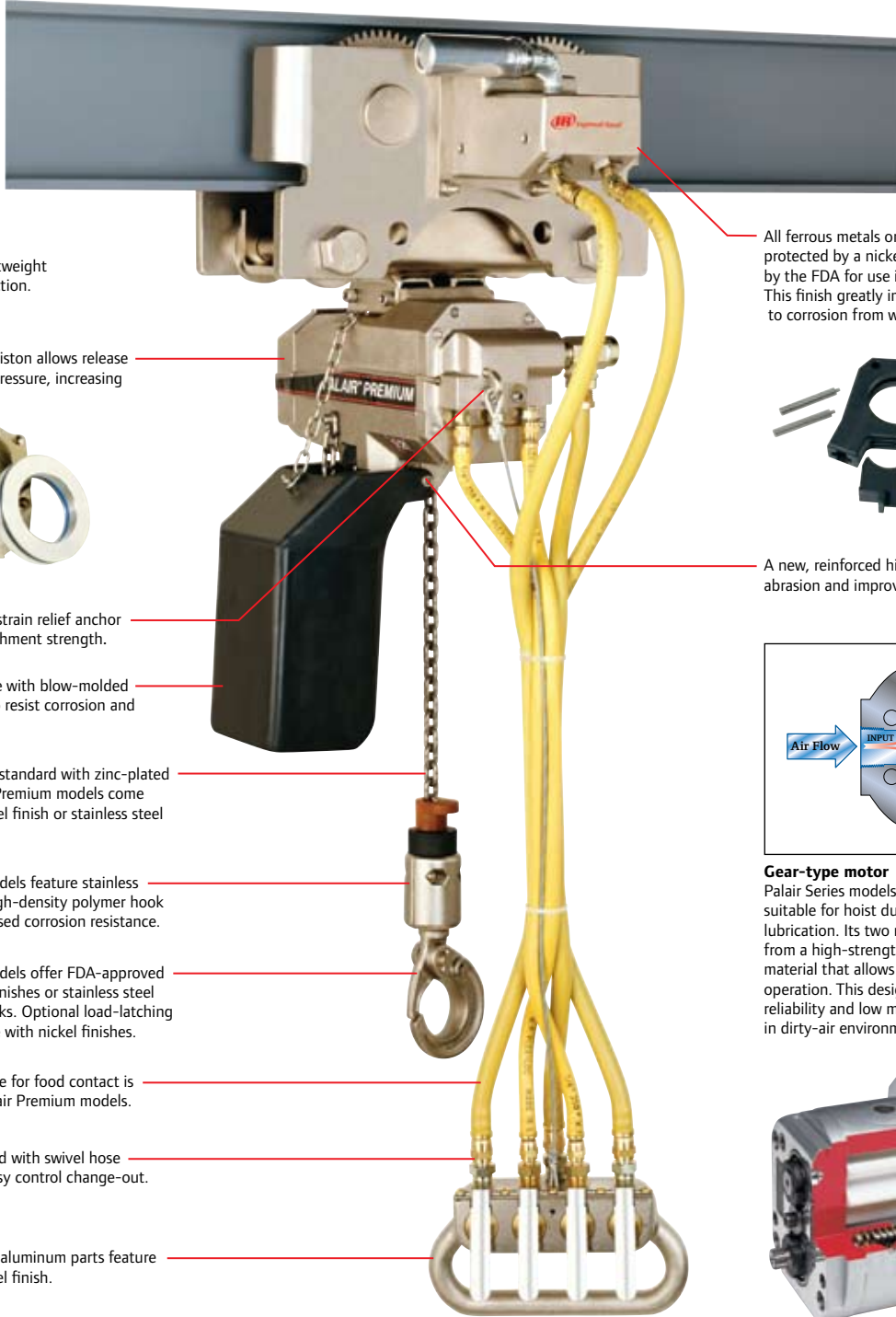


PAL Series Palair Plus lug-mounted



Lube-free Palair™ Series

0.25 to 1 metric ton lifting capacities



Hoists feature lightweight aluminum construction.

New larger brake piston allows release of brake at lower pressure, increasing service life.



Improved "J-bolt" strain relief anchor for enhanced attachment strength.

Hoists are available with blow-molded chain containers to resist corrosion and reduce noise.

Palair hoists come standard with zinc-plated load chain. Palair Premium models come standard with nickel finish or stainless steel load chain.

Palair Premium models feature stainless steel-reinforced high-density polymer hook bearings for increased corrosion resistance.

Palair Premium models offer FDA-approved nickel composite finishes or stainless steel standard latch hooks. Optional load-latching hooks are available with nickel finishes.

FDA-approved hose for food contact is featured on all Palair Premium models.

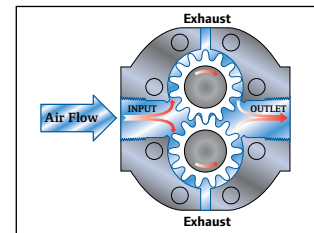
Hoists are equipped with swivel hose connections for easy control change-out.

All Palair Premium aluminum parts feature an electroless nickel finish.

All ferrous metals on Palair Premium models are protected by a nickel composite finish approved by the FDA for use in applications involving food. This finish greatly improves resistance to corrosion from wash downs.



A new, reinforced high-density polymer resists abrasion and improves life of chain guide.



Gear-type motor

Palair Series models have gear-type motors suitable for hoist duty without supply air lubrication. Its two moving parts are made from a high-strength, durable composite material that allows for lube-free motor operation. This design provides high reliability and low maintenance even in dirty-air environments.



Gear motor runs lube-free by using close tolerance molded gears made of a high-strength self-lubricating composite material.

Lube-free Palair™ Series

0.25 to 1 metric ton lifting capacities

Palair Plus Series and Palair Premium Series Specifications

Model	Capacity metric			Hook Mount Headroom		Trolley Mount Headroom		Lifting Speed				Lowering Speed				Chain Size	Chain Weight (per foot of lift)		Net Weight w/10 ft of Lift	
	lb	tons	# Falls	in	mm	in	mm	Rated Load	No Load	Rated Load	No Load	Rated Load	No Load	ft/min	m/min		ft/min	m/min	lb	kg
PAL250K	550	0.25	1	15.3	387.4	17.8	450.9	66	20.1	98	29.9	75	22.9	52	15.9	5 x 15.1	0.4	0.2	33	15
PALP250K	550	0.25	1	15.3	387.4	17.8	450.9	66	20.1	98	29.9	75	22.9	52	15.9	5 x 15.1	0.4	0.2	33	15
PAL500K	1,100	0.50	1	15.3	387.4	17.8	450.9	44	13.4	98	29.9	88	26.8	52	15.9	5 x 15.1	0.4	0.2	33	15
PALP500K	1,100	0.50	1	15.3	387.4	17.8	450.9	44	13.4	98	29.9	88	26.8	52	15.9	5 x 15.1	0.4	0.2	33	15
PAL1000K	2,200	1	2	17.5	444.5	20	507.2	22	6.7	49	14.9	44	13.4	26	7.9	5 x 15.1	0.7	0.3	39.5	17.9
PALP1000K	2,200	1	2	17.5	444.5	20	507.2	22	6.7	49	14.9	44	13.4	26	7.9	5 x 15.1	0.7	0.3	39.5	17.9
PALP315K*	690	0.31	1	15.3	387.4	17.8	450.9	53	16.2	98	29.9	80	24.4	52	15.9	5 x 15.1	0.4	0.2	33	15
PALP630K*	1,380	0.63	2	17.5	444.5	20	507.2	26	7.9	49	14.9	40	12.2	26	7.9	5 x 15.1	0.7	0.3	39.5	17.9

Working pressure from 5 to 7 bar (70 to 100 psi). Air consumption @ rated load - all models 2.21 m (78 cfm). Air inlet 1/2" NPT. Sound level 85 dBA. Recommended diameter of supply hoses for pipes, filter, and lubricator is 3/4". * Capacity is de-rated for stainless steel chain and hooks.

Trolley Mount Specifications

Model	Trolley type	Capacity metric tons	Minimum Headroom		Trolley Speed at Rated Load		Air Consumption @ Rated Load		Trolley Flange Adjustment		Minimum Curve Radius		Air Inlet	Net Weight w/10 ft of Lift	
			in	mm	ft/min	m/min	ft³/min	m³/min	in	mm	ft	m		lb	kg
PAL250K	Plain	0.25	15.7	400	-	-	-	-	3.25-12	83-305	3.5	1.1	-	75	34
	Geared	0.25	15.7	400	-	-	-	-	3.25-12	83-305	3.5	1.1	-	78	35
	Motor	0.25	15.7	400	95	29	35	1	3.25-12	83-305	3.5	1.1	1/4	81	35
PALP250K	Plain	0.25	15.7	400	-	-	-	-	3.25-6	83-152	3.5	1.1	-	75	34
	Geared	N/A	N/A	N/A	-	-	-	-	N/A	N/A	N/A	N/A	-	N/A	N/A
	Motor	0.25	15.7	400	95	29	35	1	3.25-6	83-152	3.5	1.1	1/4	81	35
PAL500K	Plain	0.50	15.7	400	-	-	-	-	3.25-12	83-305	3.5	1.1	-	75	34
	Geared	0.50	15.7	400	-	-	-	-	3.25-12	83-305	3.5	1.1	-	78	35
	Motor	0.50	15.7	400	93	28	35	1	3.25-12	83-305	3.5	1.1	1/4	81	35
PALP500K	Plain	0.50	15.7	400	-	-	-	-	3.25-6	83-152	3.5	1.1	-	75	34
	Geared	N/A	N/A	N/A	-	-	-	-	N/A	N/A	N/A	N/A	-	N/A	N/A
	Motor	0.50	15.7	400	93	28	35	1	3.25-6	83-152	3.5	1.1	1/4	81	35
PAL1000K	Plain	1	18.5	470	-	-	-	-	3.25-12	83-305	3.5	1.1	-	82	37
	Geared	1	18.5	470	-	-	-	-	3.25-12	83-305	3.5	1.1	-	85	39
	Motor	1	18.5	470	88	27	35	1	3.25-12	83-305	3.5	1.1	1/4	88	38
PALP1000K	Plain	1	18.5	470	-	-	-	-	3.25-6	83-152	3.5	1.1	-	81	37
	Geared	N/A	N/A	N/A	-	-	-	-	N/A	N/A	N/A	N/A	-	N/A	N/A
	Motor	1	18.5	470	88	27	35	1	3.25-6	83-152	3.5	1.1	1/4	88	38
PALP315K	Plain	0.315	15.7	400	-	-	-	-	3.25-6	83-152	3.5	1.1	-	75	34
	Geared	N/A	N/A	N/A	-	-	-	-	N/A	N/A	N/A	N/A	-	N/A	N/A
	Motor	0.315	15.7	400	97	30	35	1	3.25-6	83-152	3.5	1.1	1/4	81	35
PALP630K	Plain	0.63	18.5	470	-	-	-	-	3.25-6	83-152	3.5	1.1	-	81	37
	Geared	N/A	N/A	N/A	-	-	-	-	N/A	N/A	N/A	N/A	-	N/A	N/A
	Motor	0.63	18.5	470	90	27	35	1	3.25-6	83-152	3.5	1.1	1/4	88	38

Working pressure from 5 to 7 bar (70 to 100 psi).

Description of Corrosion Resistance

Level Of Corrosion Resistance	Corrosion-Resistant Material					Maximum Capacity	
	Body	Pendent	Top Hook Assembly	Bottom Hook Assembly	Chain	Single Fall lb	Double Fall lb
F1	EN	EN	NC	NC	ND	1,100	2,200
F2	EN	EN	SS	SS	ND	690	1,380
F3	EN	EN	SS	SS	SS	690	1,380

ND = nickel diffused, SS = stainless steel, EN = electroless nickel, NC = nickel composite. The F2 and F3 corrosion-resistant packages are FDA-approved for food processing.

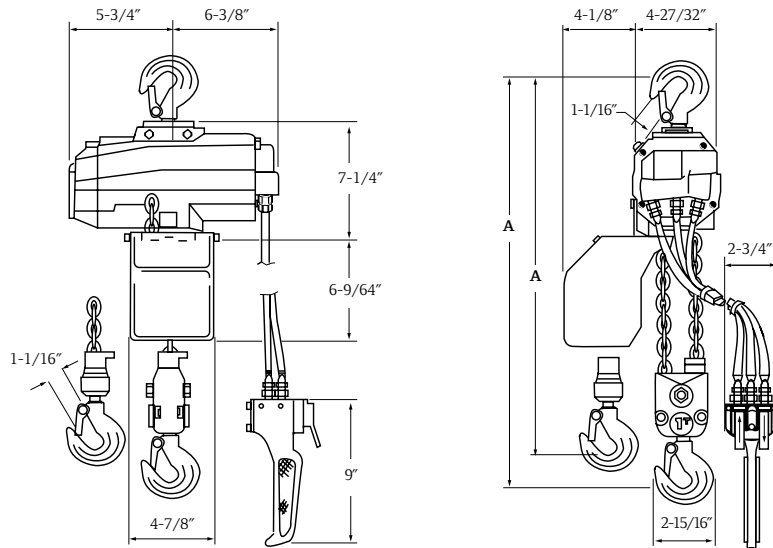
Accessories

Description	Part Number
3/4" filter	F35451-410
3/4" regulator	R37451-600
Pendent quick exhaust valve kit (each)	20417
Piped-away exhaust kit	PAL-K8

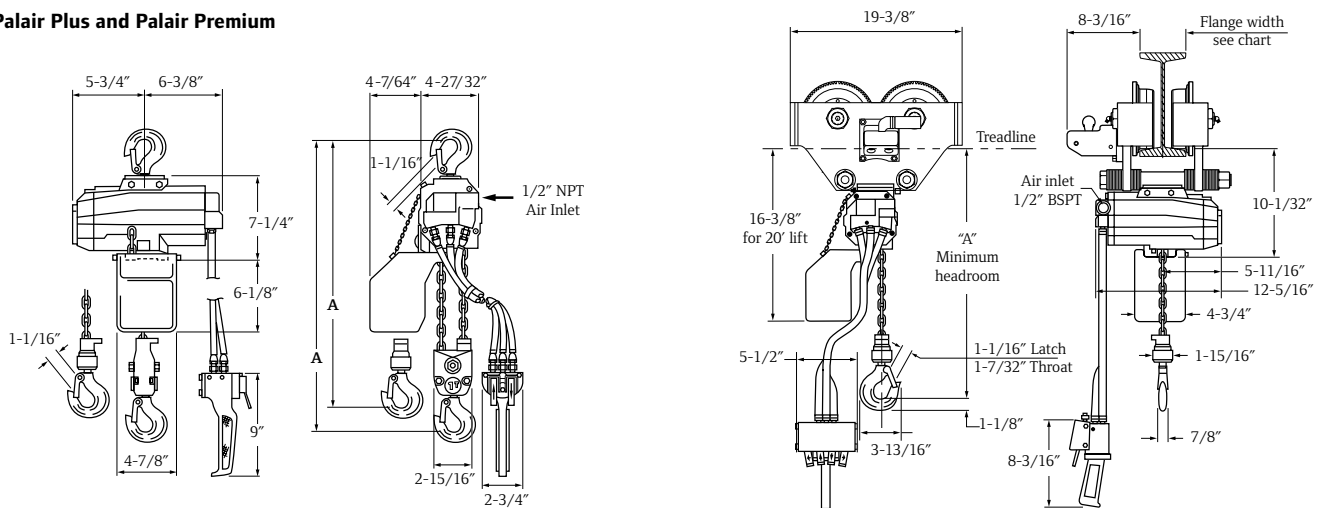
Lube-free Palair™ Series

0.25 to 1 metric ton lifting capacities

Palair Premium



Palair Plus and Palair Premium



Air Chain Hoists

Lube-free Palair™ Series

0.25 to 1 metric ton lifting capacities

► HOW TO ORDER

Specify the complete model number as shown. This model code includes: Base Model - Control Options, Upper Suspension, Lift - Lower Suspension, Control Length, and Options. **Example: PALP630K-2C15-11F2U**

PALP630K	-	2	C	15	-	11	F2	U
Base model Plus PAL models PAL250K = 550 lb PAL500K = 1,100 lb PAL1000K = 2,200 lb Premium PALP models PALP250K = 550 lb PALP315K = 690 lb PAL500K = 1,100 lb PALP630K = 1,380 lb PAL1000K = 2,200 lb		Control options 0 = No controls 2 = Pendant controls 3 = 2 Motor pendant ⁽¹⁾ 4 = 3 Motor pendant ⁽¹⁾	Upper suspension A = Lug /adapter B = Bullard top hook C = Steel snap hook R = Bronze snap hook DA ⁽²⁾ = Push trolley, A flange DD ⁽²⁾ = Push trolley, D flange FXXA ⁽²⁾⁽³⁾ = Hand geared trolley, A flange FXXD ⁽²⁾⁽³⁾ = Hand geared trolley, D flange HA ⁽²⁾ = Powered trolley, A flange HD ⁽²⁾ = Powered trolley, D flange	Lift (ft) 10 = 10 ft (standard) XX = Specify length		Control drop (ft) 6 = 6 ft (standard) XX = Specify length	Corrosion resistance F1 F2 = (FDA approved) F3 = (FDA approved)	Options C = Stainless load chain/ft P = Piped exhaust kit U = Canvas basket Y = Bullard bottom hook Z = Self closing bottom hook

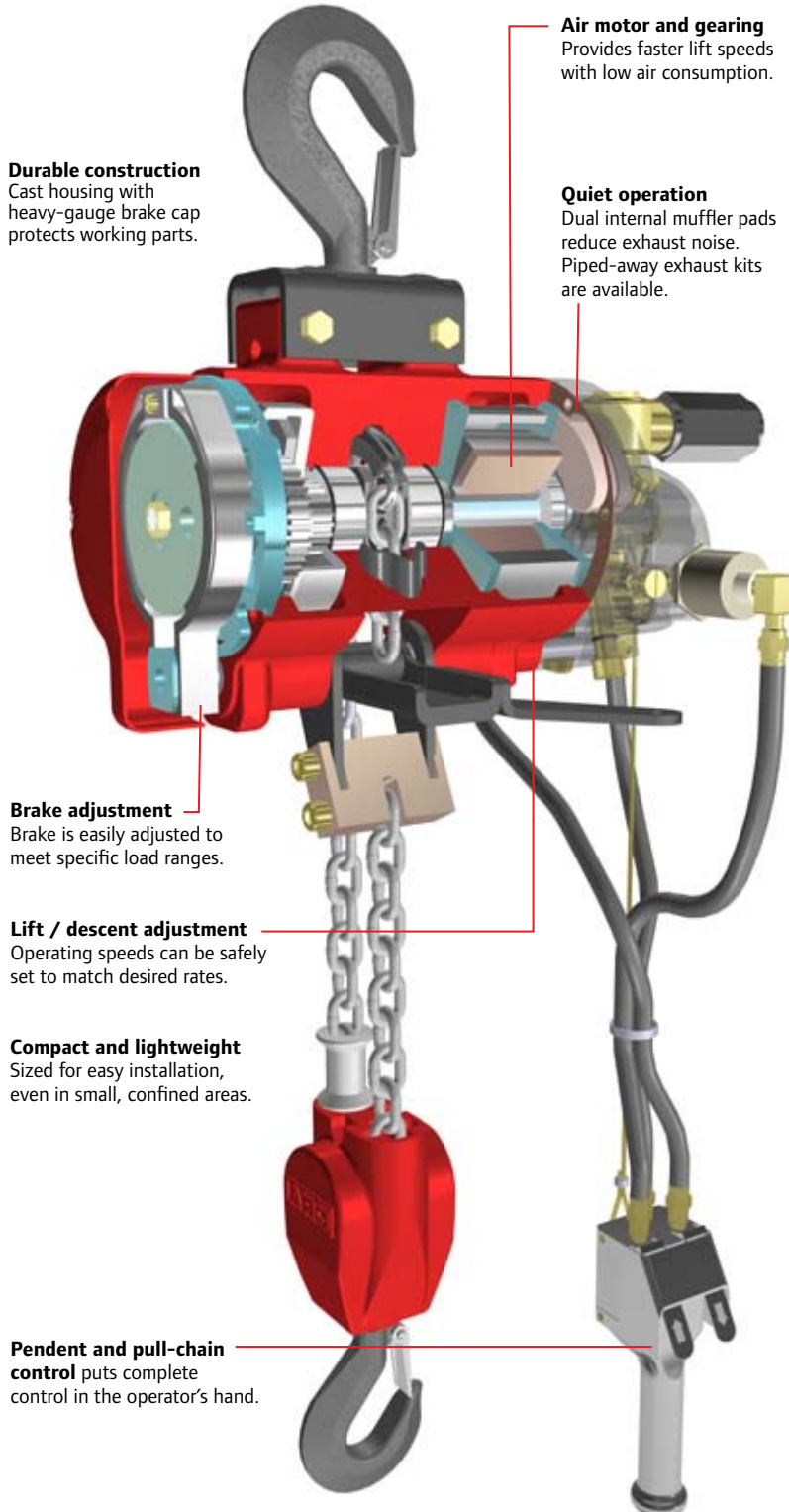
NOTE:

- (1) See exhaust valve requirements above
- (2) Not available on PALP models
- (3) Specify drop in ft (xx), 8 ft is standard drop

Pricing example: PALP630K-2C15-11F2U

1,380 lb (630 kg) capacity, with swivel top hook, 15 ft of lift, 12 ft of pendant drop, F2 corrosion resistance.

7700 Series and 7790 Series link chain hoists



Durable construction

Cast housing with heavy-gauge brake cap protects working parts.

Air motor and gearing

Provides faster lift speeds with low air consumption.

Quiet operation

Dual internal muffer pads reduce exhaust noise. Piped-away exhaust kits are available.

Brake adjustment

Brake is easily adjusted to meet specific load ranges.

Lift / descent adjustment

Operating speeds can be safely set to match desired rates.

Compact and lightweight

Sized for easy installation, even in small, confined areas.

Pendent and pull-chain control

puts complete control in the operator's hand.

Quality and performance

Ingersoll Rand hoists can be equipped with a variety of optional features that can be matched to the specifications of almost any job. Their long operating life, cost-effective service and maintenance, and dependable performance are supported by a host of standard features.

Rotary-vane air motors

These powerful, self-cooling rotary motors keep Ingersoll Rand hoists at peak performance in high-temperature situations. And, because they are air-powered, they further reduce the chance of causing sparks in a volatile environment.

Complete operator control

A pressure pendent or pull chain puts complete control of the hoist in the operator's hand. These hoists respond immediately to an operator's "inching" commands.

External brake adjustment

Easily customizes the sensitivity of the hoist to the load range for any application. This results in ease of operation with better spotting, feathering, and overall control.

Fast, efficient load handling

Rotary-vane air motors and efficient gearing combine to deliver one of the fastest lift speeds available. Gear ratios have been calculated to yield the lowest possible air consumption.

Job-matched performance

Numerous options allow Ingersoll Rand hoists to be matched to specific application requirements, including link or roller load chains, hook types, manual and power trolleys, pull chain or pendent control, standard and spark-resistant, and 300-lb to 2-ton capacities.

Clean and quiet

For applications and environments that require clean air, exhaust can be piped away. A two-stage filtration system removes foreign matter from air supplies so motors can operate at peak performance with longer operating lives.

Easy installation

Lightweight and convenient, Ingersoll Rand hoists are easier to install than any other model. Even in small, confined areas, they can be installed and removed with minimal effort.

7700 Series and 7790 Series link chain hoists

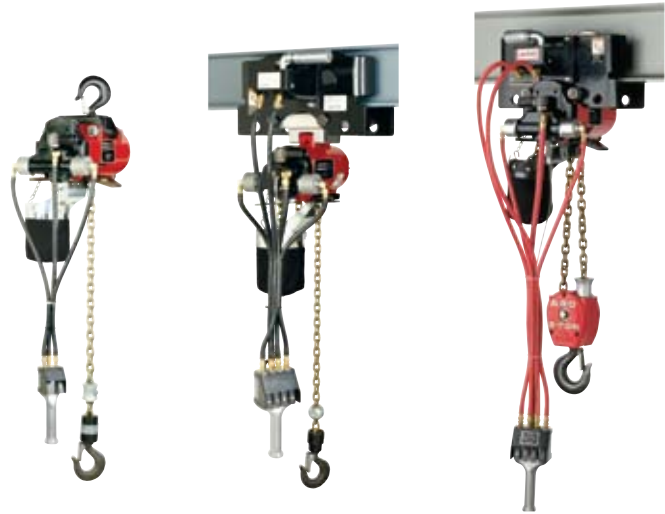
0.125 to 2 metric ton lifting capacities

Continuous heavy-duty applications

The 7700 and 7790 Series has been designed specifically for heavy-duty industrial applications where loads vary between 275 and 4,400 lb. Simple, rugged, and reliable, these hoists are constructed with few moving parts for easy repair and less downtime. These hoists come complete with 10 feet of standard lift and 6 feet of either pendent control or pull-chain control.

Features

- Exceptional slow-speed control provides superior “spotting” characteristics
- Powerful, self-cooling rotary motors keep hoists at peak performance in high temperatures
- Brake control easily adjusts to meet specific load ranges
- Motor and gearing provide faster lift speeds with low air consumption



7700 Series and 7790 Series Specifications

Model	Capacity			Hook Mount Headroom		Trolley Mount Headroom		Lifting Speed				Lowering Speed				Chain Size	Chain Weight (per foot of lift)		Net Weight w/10 ft of Lift	
	lb	metric tons	# Falls	in	mm	in	mm	Rated Load	No Load	Rated Load	No Load	Rated Load	No Load	ft/min	m/min		ft/min	m/min	lb	kg
7770E	275	0.125	1	17	431.8	16.9	429.3	110	33.5	192	58.5	275	83.8	159	48.5	0.25 x 0.75	0.6	0.3	41	18.6
7718E	550	0.25	1	17	431.8	16.9	429.3	82	25	184	56.1	224	68.3	153	46.6	0.25 x 0.75	0.6	0.3	41	18.6
7756E	1,100	0.50	1	17	431.8	16.9	429.3	41	12.5	72	22	112	34.1	60	18.3	0.25 x 0.75	0.6	0.3	41	18.6
7776E	2,200	1	2	21.7	551.2	20.5	520.7	21	6.4	36	11	56	17.1	30	9.1	0.25 x 0.75	1.7	0.5	53	24
7790A	2,200	1	1	18.9	480.1	15	381	26	7.9	37	11.3	44	13.4	31	9.5	0.312 x 0.858	0.9	0.4	62	28.1
7792A	4,400	2	2	22.4	569	18	457.2	12	3.7	20	6.1	24	7.3	17	5.2	0.312 x 0.858	1.8	0.8	81	36.7

Working pressure from 5 to 7 bar (70 to 100 psi). Air consumption @ rated load - all models 1.98 m³ (70 cfm). Air inlet 1/2" NPT. Sound level 85 dBA.

Trolley Mount Specifications

Model	Trolley type	Capacity metric tons	Minimum Headroom		Trolley Speed at Rated Load		Air Consumption @ Rated Load		Trolley Flange Adjustment		Minimum Curve Radius		Air Inlet	Net Weight w/10 ft of Lift	
			in	mm	ft/min	m/min	ft ³ /min	m ³ /min	in	mm	ft	m		lb	kg
7770E	Plain	0.125	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	88	40
	Geared	0.125	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	91	41
	Motor	0.125	17	432	96	30	35	1	2.66-12	68-305	3.5	1.1	1/4	94	13
7718E	Plain	0.25	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	88	40
	Geared	0.25	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	91	41
	Motor	0.25	17	432	95	29	35	1	2.66-12	68-305	3.5	1.1	1/4	94	43
7756E	Plain	0.50	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	88	40
	Geared	0.50	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	91	41
	Motor	0.50	17	432	95	29	35	1	2.66-12	68-305	3.5	1.1	1/4	94	43
7776E	Plain	1	22	559	-	-	-	-	3.25-12	82-305	3.5	1.1	-	100	45
	Geared	1	22	559	-	-	-	-	3.25-12	82-305	3.5	1.1	-	103	47
	Motor	1	22	559	93	28	35	1	3.25-12	82-305	3.5	1.1	1/4	106	48
7790A	Plain	1	15	381	-	-	-	-	3.00-12	76-305	3.5	1.1	-	104	47
	Geared	1	15	381	-	-	-	-	3.00-12	76-305	3.5	1.1	-	107	49
	Motor	1	15	381	93	28	35	1	3.00-12	76-305	3.5	1.1	1/4	110	50
7792A	Plain	2	20	508	-	-	-	-	3.00-12	76-305	3.5	1.1	-	123	56
	Geared	2	20	508	-	-	-	-	3.00-12	76-305	3.5	1.1	-	126	57
	Motor	2	20	508	80	24	35	1	3.00-12	76-305	3.5	1.1	1/4	129	59

Working pressure from 5 to 7 bar (70 to 100 psi).

7700 Series and 7790 Series link chain hoists

Spark-resistant models

Continuous heavy-duty applications

7700 Series — 500 to 1,500 lb capacities

7790 Series — 1,500 to 3,000 lb capacities

7700 Series and 7790 Series spark-resistant hoists are designed for Division 1 applications where, under normal operating conditions, the atmosphere contains hazardous concentrations of flammable gases, dust, or other materials.

Specifically engineered for continuous heavy-duty industrial applications — between 500 and 3,000 lb — Ingersoll Rand 7700 Series and 7790 Series spark-resistant hoists are available with bronze top-hook or trolley adapter suspension. These hoists come complete with 10 feet of standard lift and 6 feet of either pendent control or pull-chain control.

Features

- Stainless steel load chain and solid bronze hooks prevent accidental sparking
- Pendent control handles, when ordered, are covered with an industrial-grade vinyl grip; pull-chain controls come standard with zinc-plated pull chain
- Hoist capacities are reduced and speed adjustments are locked into place to maximize chain life
- Trolley models are supplied with bronze wheels

Division 1 and 2 applications

The following definitions may be used as a guide. The actual division distinction for each application must be determined by your local inspecting authority.

Division 1 (spark-resistant air hoists are required)

Atmospheres containing hazardous concentrations of flammable gases, dusts, or fibers; continuously, frequently, or periodically; under normal operating conditions.

Division 2 (standard air hoists are required)

Normally non-hazardous atmospheres in which a hazardous concentration of flammable gases, dusts, or fibers occurs when a container or handling system fails or the ventilating system that normally keeps the concentration non-hazardous fails.



7700 Series and 7790 Series Spark-resistant Specifications

Model	Capacity metric		# Falls	Hook Mount Headroom		Trolley Mount Headroom		Lifting Speed				Lowering Speed				Chain Weight (per foot of lift)	Net Weight w/10 ft of Lift			
	lb	tons		in	mm	in	mm	ft/min	m/min	ft/min	m/min	ft/min	m/min	ft/min	m/min		lb	kg	lb	kg
7712EL	550	0.25	1	17	431.8	17.1	434.3	50	15.2	80	24.4	70	21.3	53	16.2	0.25 x 0.75	0.6	0.3	41	18.6
7714EL	1,500	0.68	2	22.7	576.6	21.3	541	16	4.9	26	7.6	16	4.9	12	3.7	0.25 x 0.75	1.2	0.6	48	21.8
7796AL	1,500	0.68	1	18.9	480.1	15	381	16	4.9	26	7.6	16	4.9	12	3.7	0.312 x 0.858	0.9	0.4	62	28.1
7798AL	2,400	1.1	2	22.4	569	18	457.2	12	3.7	19	5.8	12	3.7	9	2.7	0.312 x 0.858	1.9	0.9	81	36.7
7799AL	3,000	1.36	2	22.4	569	18	457.2	7	2.1	11	3.4	7	2.1	5	1.5	0.312 x 0.858	1.9	0.9	81	36.7

Working pressure from 5 to 7 bar (70 to 100 psi). Air consumption @ rated load - all models 1.98 m (70 cfm). Air inlet 1/2" NPT. Sound level 85 dBA.

Trolley Mount Specifications

Model	Trolley type	Capacity metric tons	Minimum Headroom		Trolley Speed at Rated Load		Air Consumption @ Rated Load		Trolley Flange Adjustment		Minimum Curve Radius		Air Inlet	Net Weight w/10 ft of Lift	
			in	mm	ft/min	m/min	ft ³ /min	m ³ /min	in	mm	ft	m		lb	kg
7712-EL	Plain	0.25	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	88	40
	Geared	0.25	17	432	-	-	-	-	2.66-12	68-305	3.5	1.1	-	91	41
	Motor	0.25	17	432	96	30	35	1	2.66-12	68-305	3.5	1.1	1/4	94	43
7714EL	Plain	0.68	22	559	-	-	-	-	3.25-12	82-305	3.5	1.1	-	95	43
	Geared	0.68	22	559	-	-	-	-	3.25-12	82-305	3.5	1.1	-	98	45
	Motor	0.68	22	559	93	28	35	1	3.25-12	82-305	3.5	1.1	1/4	101	46
7796AL	Plain	0.68	15	381	-	-	-	-	3.00-12	76-305	3.5	1.1	-	104	47
	Geared	0.68	15	381	-	-	-	-	3.00-12	76-305	3.5	1.1	-	107	49
	Motor	0.68	15	381	93	28	35	1	3.00-12	76-305	3.5	1.1	1/4	110	50
7798AL	Plain	1.1	20	508	-	-	-	-	3.00-12	76-305	3.5	1.1	-	123	56
	Geared	1.1	20	508	-	-	-	-	3.00-12	76-305	3.5	1.1	-	126	57
	Motor	1.1	20	508	93	28	35	1	3.00-12	76-305	3.5	1.1	1/4	129	59
7799AL	Plain	1.4	20	508	-	-	-	-	3.00-12	76-305	3.5	1.1	-	123	56
	Geared	1.4	20	508	-	-	-	-	3.00-12	76-305	3.5	1.1	-	126	57
	Motor	1.4	20	508	84	25	35	1	3.00-12	76-305	3.5	1.1	1/4	129	59

Working pressure from 5 to 7 bar (70 to 100 psi).

7700 Series roller chain hoists

Standard and powered trolley

Continuous heavy-duty applications

7700 Series — 400 to 1,600 lb capacities

Our 7700 Series roller chain hoists have been designed specifically for heavy-duty industrial applications where loads vary between 400 and 1,600 lb. Roller chain is not recommended for operations with high duty cycles or side-loading requirements. Simple, rugged, and reliable, these hoists are constructed with few moving parts for easy repairs and less downtime. Load capacities for 7700 Series hoists with roller chain have been reduced, due to their dynamic load-limiting chain characteristics. The 7700 Series comes complete with 10 feet of standard lift and either 6 feet of pendent control or 6 feet of pull-chain control.

Features

- Exceptional slow-speed control provides superior spotting characteristics and the ability to confidently inch loads into position
- Powerful, self-cooling rotary motors keep hoists at peak performance in high-temperature situations
- Motor and gearing provide fast lift speeds and low air consumption
- Responsive controls — pendent or pull chain — react immediately to operator's commands
- Roller chain hoists make ideal drive motors with a continuous loop of roller chain, diameter / pitch: 0.4" / 0.625"



7700 Series Roller Chain Specifications

Model	Capacity			Hook Mount Headroom		Trolley Mount Headroom		Lifting Speed				Lowering Speed				Chain Size	Chain Weight (per foot of lift)		Net Weight w/10 ft of Lift	
	lb	metric tons	# Falls	in	mm	in	mm	Rated Load ft/min	No Load m/min	ft/min	m/min	Rated Load ft/min	No Load m/min	ft/min	m/min		lb	kg	lb	kg
7720E	400	0.18	1	15.9	403.9	16	406.4	100	30.5	157	47.9	202	61.6	130	39.6	0.4 x 0.625	1.3	0.6	41	18.6
7708E	800	0.36	1	15.9	403.9	16	406.4	50	15.2	78	23.8	101	30.8	65	19.8	0.4 x 0.625	1.3	0.6	41	18.6
7732E	2,200	1	2	21.7	551.2	21.3	541	25	7.6	39	11.9	51	15.5	32	9.8	0.4 x 0.625	2.6	1.2	53	24

Working pressure from 5 to 7 bar (70 to 100 psi). Air consumption @ rated load - all models 1.98 m (70 cfm). Air inlet 1/2" NPT. Sound level 85 dBA.

Trolley Mount Specifications

Model	Trolley type	Capacity metric tons	Minimum Headroom		Trolley Speed at Rated Load		Air Consumption @ Rated Load		Trolley Flange Adjustment		Minimum Curve Radius		Air Inlet	Net Weight w/10 ft of Lift	
			in	mm	ft/min	m/min	ft ³ /min	m ³ /min	in	mm	ft	m		lb	kg
7720E	Plain	0.18	432	17	-	-	-	-	68-305	2.66-12	1.1	3.5	-	40	88
	Geared	0.18	432	17	-	-	-	-	68-305	2.66-12	1.1	3.5	-	41	91
	Motor	0.18	432	17	30	96	1	35	68-305	2.66-12	1.1	3.5	1/4	43	94
7708E	Plain	0.36	432	17	-	-	-	-	68-305	2.66-12	1.1	3.5	-	40	88
	Geared	0.36	432	17	-	-	-	-	68-305	2.66-12	1.1	3.5	-	41	91
	Motor	0.36	432	17	29	95	1	35	68-305	2.66-12	1.1	3.5	1/4	43	94
7732E	Plain	0.73	559	22	-	-	-	-	82-305	3.25-12	1.1	3.5	-	45	100
	Geared	0.73	559	22	-	-	-	-	82-305	3.25-12	1.1	3.5	-	47	103
	Motor	0.73	559	22	28	93	1	35	82-305	3.25-12	1.1	3.5	1/4	48	106

Working pressure from 5 to 7 bar (70 to 100 psi)

Hoist accessories for 7700 and 7790 Series

Load chain

Ingersoll Rand hoists are offered with several different load chains. Standard hoists come complete with steel load chains (link or roller). Spark-resistant hoists come with stainless-steel link load chain.

Chain length 7700 Series (0.25-, 0.50-ton), 7790 Series (1-ton)
Length of lift desired + 1 foot = load chain length

Chain length 7700 Series (1-ton), 7790 Series (2-ton)
2 x length of lift desired + 2 feet = load chain length



Link chain



Roller chain

Hoist Used On	Capacity lb	Chain Part No.	Chain Size Dia./Pitch	Weight lb/ft	Feet in Package
ZINC PLATED LINK					
7700 Series	275, 550, 1,100, 2,200	37708	.25 / .75	.6	250
7790 Series	2,200 & 4,400	42988	.312 / .858	.9	250
STEEL ROLLER					
7700 Series	400, 800	33364	.4 / .625	1.3	320
7700 Series	1,600	34332	.4 / .625	1.3	320
STAINLESS STEEL LINK					
7700 Series	500, 1,500	39489	.25 / .75	.6	250
7790 Series	1,500, 2,400, 3,000	43095	.312 / .858	.9	250

Hose Carrier Trolley

Easily tracks along same beam that hoist is mounted on. Keeps air hose suspended and out of operator's way. Use one for each 8 feet of hose length.

Part No.	Max Hose O.D. in	Min/Max Beam Height (in)	Min/Max Beam Flange Width (in)
7703	1 1/4	3-10	2-3/8 - 5
D10-8888			5 - 8-3/4



7703

Restraining Cable

For use as an added safety precaution in hoist suspension. Cable inserts through hole in hoist housing and around I-beam or other structure capable of safely supporting hoist and hoist load weight. Order based upon hoist used.

Hoist Used On	Part No.	Cable Dia. in	Cable Length ft
7700 Series	43231	1/4	2
7790 Series	43059	5/16	3-1/2



43231

Hoist accessories for 7700 and 7790 Series

Chain Baskets

Catches and stores load chain as load is lifted. Mounts directly to side of hoist. Order based upon load chain length and hoist being used. Load chain length on 1-ton 7700 Series hoists and 2-ton 7790 Series hoists is twice the lift distance.

Load Chain Max Lineal Feet	Link Chain (metal basket)		Link Chain (canvas basket ¹)		Roller Chain (metal basket)
	7700	7790	7700	7790	7700
10	-	49800 - 10	-	43441 - 1	37654
12	-	-	-	-	-
16	37653 - 16	-	-	-	37655
20	-	49800 - 20	43554 - 1	43441 - 2	-
30	-	49800 - 30	-	-	-
32	37653 - 32	-	43554 - 2	-	-
40	-	49800 - 40	-	43554 - 3	37656
56	37653 - 64	-	-	-	-
60	-	49800 - 60	-	-	-
64	-	-	43554 - 3	-	-
80	37653 - 80	49800 - 80	-	-	-
59	37653 - 100	49800 - 100	-	-	-

(1) Canvas baskets are made of specially treated oil-resistant material.



Exhausts

Piped exhaust¹

Allows exhaust to be piped to a remote area. This is particularly desirable for applications in food processing, chemicals, and processes where atmospheric purity must be maintained.

How to order: specify as option in Ordering Guide.

20308-4 exhaust muffler

Threads into exhaust port to minimize sound level. Can be used on 7700 and 7790 Series hoists ordered with piped exhaust option.

For field conversion

All 7700 Series hoists may be converted to a piped-away exhaust by ordering 46098-1 Head Assembly.

All 7790 Series hoists (except power trolley models) may be converted to a piped-away exhaust by ordering 43029 Piped Exhaust Adapter.

(1) Hose not included. Exhaust port is 1/2" NPTF.

Hoist Controls

To convert from pull chain to pendent control: Either nylon braid (standard) or steel braid control hose is available. Steel braid hose is recommended to resist heat or abrasion. Specify the model shown, inserting the pendent length in feet for the *. Maximum 20 feet.

To convert from pendent control to pull chain: Specify 40004-*, where the * is pull chain length desired. Also required are two 34026 valve caps; two Y325-116 O-rings; two 38966 springs and one Y227-3 pipe plug per hoist.

Hoist Used On	Model	Type of Control	Standard Length ft
All 7700E Series	46094-*	Pendent - nylon braid hose	6
All 7700E Series	46369-*	Pendent - steel braid hose	6
All 7790 Series	43106-*	Pendent - nylon braid hose	6
All 7790 Series	46364-*	Pendent - steel braid hose	6
All 7700 & 7790 Series	40004-*	Pull chain	5



Hoist accessories for 7700 and 7790 Series

Hooks

Ingersoll Rand offers three different hook configurations designed to meet the needs of any material handling application. All hooks must be ordered separately by specifying model required according to hoist and beam configurations.

Steel snap-hooks

Steel snap-hooks have a spring-loaded latch to prevent a lifting eye from popping out of the hook while the load is "grounded." This style of self-closing hooks is the most popular as they are easy and inexpensive to replace.

Bullard hooks

Ideal for rough, high-speed, repetitive applications, these hooks employ a swinging gate latch. Far superior in strength to snap-hooks, the gate latch locks into place to minimize any chance of the "end effector" or "below-the-hook" attachment leaving the hook.

Self-Closing latch hooks

Self-closing latch hooks have the benefits of both spring-loaded snap hooks, and Bullard hooks by combining a spring-loaded latch with the strength and durability of the heavier gage Bullard gate.



Hoist Series	Capacity (lb)	Upper Hook	Hooks For Link Chain Hook Opening (in)	Lower Hook	Hook Opening (in)	Upper Hook	Hooks For Roller Chain Hook Opening (in)	Lower Hook	Hook Opening (in)
STEEL SNAP HOOKS									
7700 Series 0.125, 0.25 and 0.50 ton	275/550/1,100	34921	1-1/8	35014	1	34921	1-1/8	33381-1	1
7700 Series 0.25 ton spark res.	500	35113	1-1/8	46565	1	35113	1-1/8	34655-1	1
7700 Series 1 ton	2,200	34921	1-1/8	45707 ¹	1-1/8	34921	1-1/8	45708 ¹	1-1/8
7700 Series 0.50 ton spark res.	1,000	N/A	-	N/A	-	35113	1-1/8	45710 ¹	1-1/8
7700 Series 0.75 ton spark res.	1,500	35113	1-1/8	45709 ¹	1-1/8	N/A	-	N/A	-
7790 Series 1 ton	2,200	43002	1-1/8	43000	1-1/8	N/A	-	N/A	-
7790 Series 0.75 ton spark res.	1,500	43097	1-1/8	43110	1	N/A	-	N/A	-
7790 Series 2 ton	4,400	43049	1-1/4	43048 ¹	1-1/4	N/A	-	N/A	-
7790 Series 1 ton spark res.	2,400	43096	1-1/4	43101	1-1/4	N/A	-	N/A	-
7790 Series 1.50 ton spark res.	3,000	43096	1-1/4	43101	1-1/4	N/A	-	N/A	-
BULLARD HOOKS									
7700 Series 0.25 and 0.50 ton	550/1,100	35203	1-3/16	35206	1-1/16	35203	1-3/16	35205	1-1/16
7700 Series 1 ton	2,200	35203	1-3/16	45934 ¹	1-3/16	35203	1-3/16	45935 ¹	1-3/16
7790 Series 1 ton	2,200	43458	1-3/16	43456	1-3/16	N/A	-	N/A	-
7790 Series 2 ton	4,400	43459	1-7/16	43460	1-7/16	N/A	-	N/A	-
SELF-CLOSING LATCH HOOKS									
7700 Series 0.125, 0.25 and 0.50 ton	275/550/1100	N/A	-	42799	1-1/2	N/A	-	N/A	-

(1) Includes Sheave Block

Air Hose



N12-12B

Vinyl Grip



47469

EZ Grip Ergo Handle



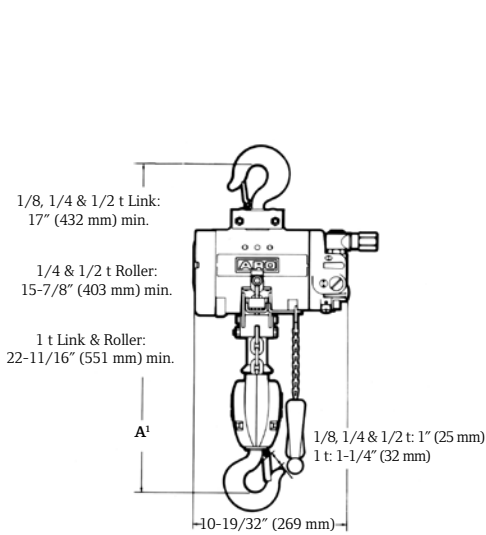
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Dimensional drawings

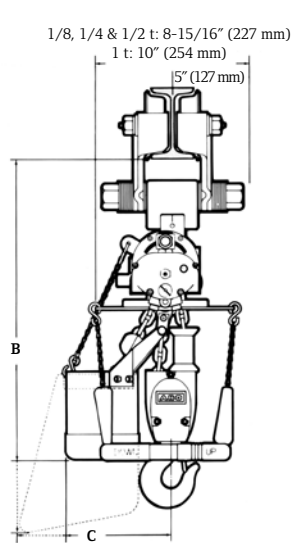
7700 Series Air Chain Hoists

Typical headroom dimensions (A) are indicated in dimensional drawings.

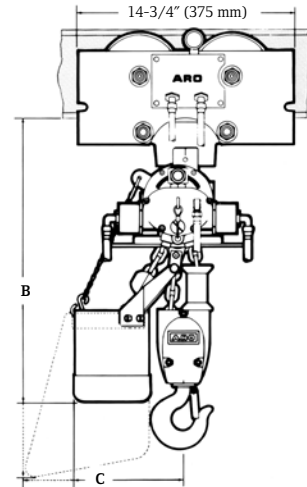
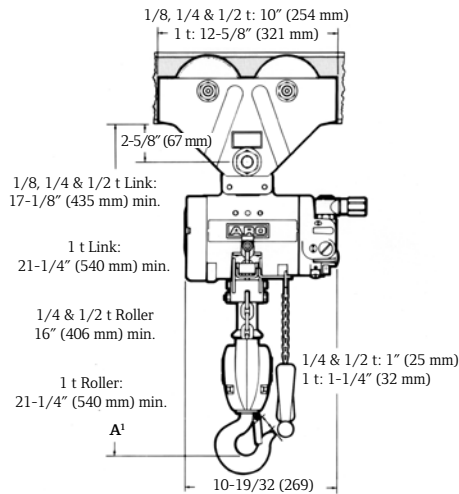
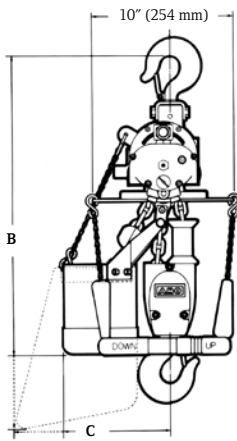
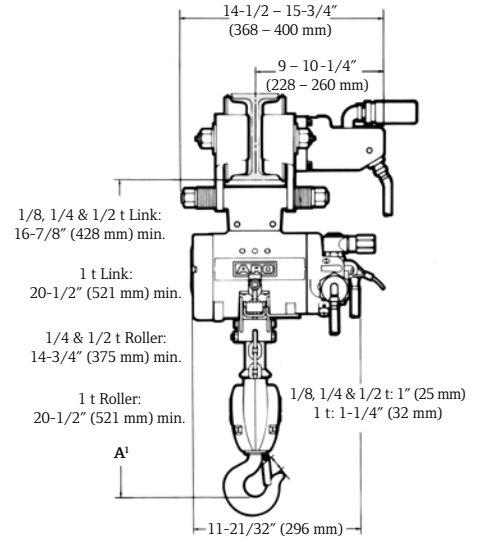
Hook Mounted



Trolley Mounted



Motorized Trolley Mounted



Note:

(1) Dimension "A" for the 7700 Series 0.125-, 0.25- and 0.50-ton hoists increases 1 inch for each Bullard hook used.

Basket Capacity (ft)	Hook Mt (in)		Trolley Mt (in)		Motorized Trly (in)	
	B	C	B	C	B	C
LINK TYPE						
20	21	7.8	21.5	7.8	20.2	7.8
32	25.5	7.8	26	7.8	24.7	7.8
56	31.5	7.8	32	7.8	30.7	7.8

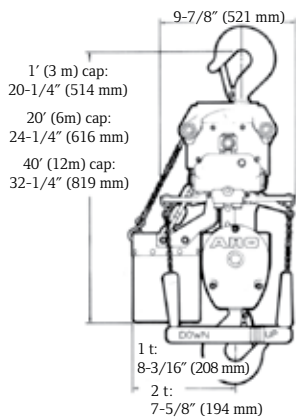
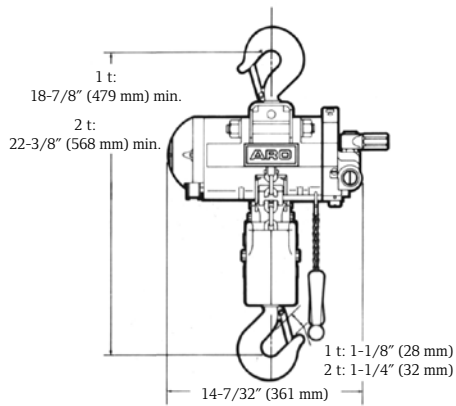
Basket Capacity (ft)	Hook Mt (in)		Trolley Mt (in)		Motorized Trly (in)	
	B	C	B	C	B	C
ROLLER TYPE						
10	25.4	11.2	25.9	11.2	24.9	11.2
16	29.3	14.4	29.8	14.4	28.7	14.4
40	39.9	20.6	40.4	20.6	39.4	20.6

Dimensional drawings

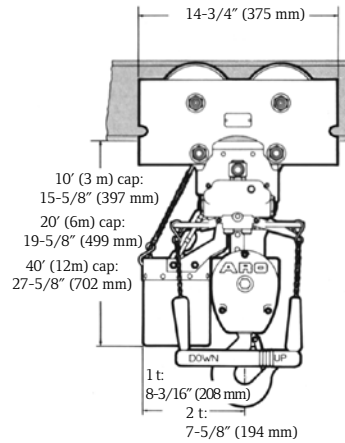
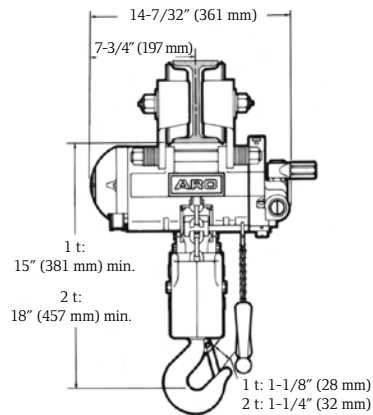
7790 Series Air Chain Hoists

Typical headroom dimensions (A) are indicated in dimensional drawings.

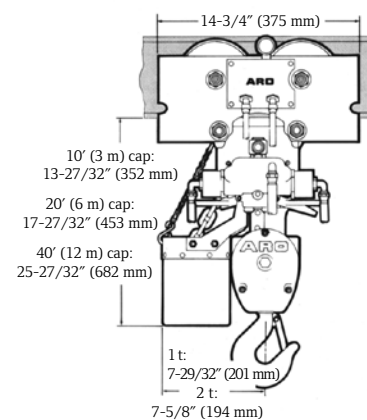
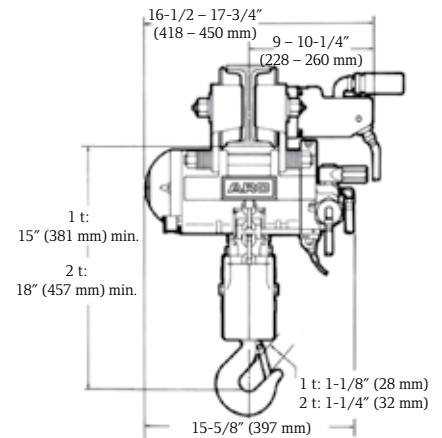
Hook Mounted



Trolley Mounted



Motorized Trolley Mounted



Note:

Headroom dimension for the 7790 Series 1-ton hoist increases 1.25" for each Bullard hook used.
Headroom dimension for the 7790 Series 2-ton hoist increases 1.50" for each Bullard hook used.

7700 Series and 7790 Series

0.125 to 2 metric ton lifting capacities

► HOW TO ORDER

Specify complete model number as shown. This model code includes: Base Model - Control Option, Upper Suspension, Lift - Lower Suspension, Control Length, and Options.

Base	Control Option	Upper Suspension	Lift (feet)	Lower Hook	Lift (feet)	Options
Zinc plated steel link chain models: 7770E = 0.125 ton 7718E = 0.25 ton 7756E = 0.50 ton 7776E = 1 ton 7790A = 1 ton 7792A = 2 ton Spark resistant stainless steel link chain models: 7712EL = 550 lb 7714EL = 1,500 lb 7796AL = 1,500 lb 7798AL = 2,400 lb 7790AL = 3,000 lb	0 = No controls 1 = Pull chain 2 = Pendent control 3 = 2 motor pendent 4 = 3 motor pendent	A = Lug / adapter C = Steel snap hook E = Eye bolt (7740 only) K = Bullard hook, manual close ⁽³⁾ R = Bronze snap hook ⁽²⁾ DA = Rigid RT or TIR push trolley A flange DD = Rigid TIR push trolley D flange FxxA = Hand geared trolley A flange FxxD = Hand geared trolley D flange HA = Powered trolley A flange HD = Powered trolley D flange	10 = Standard XXX = Specify length	C = Steel snap hook K = Bullard hook, manual close ⁽³⁾ G = Self latching hook ⁽¹⁾⁽³⁾ R = Bronze hook ⁽²⁾	6 = Standard XXX = Specify length	P = Piped exhaust kit ⁽¹⁾ U = Canvas chain container S = Steel chain container ⁽¹⁾⁽³⁾

NOTES:

(2) Standard on spark-resistant models

(3) Not available on spark-resistant models

Pricing example: 7712EL-3HA20 -R16U

Spark-resistant, 550 lb capacity, stainless link chain, 1 chain fall, 50 fpm lifting speed. Unit is specified with two motor pendent control, power trolley suspension (A flange), 20 ft of lift, bronze lower hook, 16 ft of pendent length and a canvas basket.

Electric Chain Hoists



Ingersoll Rand Quantum QCH Series electric chain hoists bring outstanding control, reliability, long life, and safety to your load handling operations. Available in both single and dual-speed options — as well as lifting capacities ranging from 0.125 to 5 ton — Quantum QCH Series hoists meet or exceed H4 duty-cycle standards for world-class performance. They are also the only hoist family UL and C-UL listed, with third-party evaluation limiting liability.

Quantum QCH Series hoists feature geared limit switches and pendants with e-stops as standard. They offer low-headroom profiles and are easily customized to your application.

Quantum Series

0.125 to 5 metric ton lifting capacities

Features

Smooth, quiet operation — Helical / spur gear combination provides smooth movement and quiet, reliable operation. A floating chain guide precisely feeds chain onto a machine-matched, five-pocket chain wheel. This system ensures smooth, jam-resistant operation.

Durability — Quantum load chains are precision-formed from alloy steel, case hardened and zinc-plated. The plating is an Ingersoll Rand proprietary process that resists corrosion better than any standard plating offered for load chain.

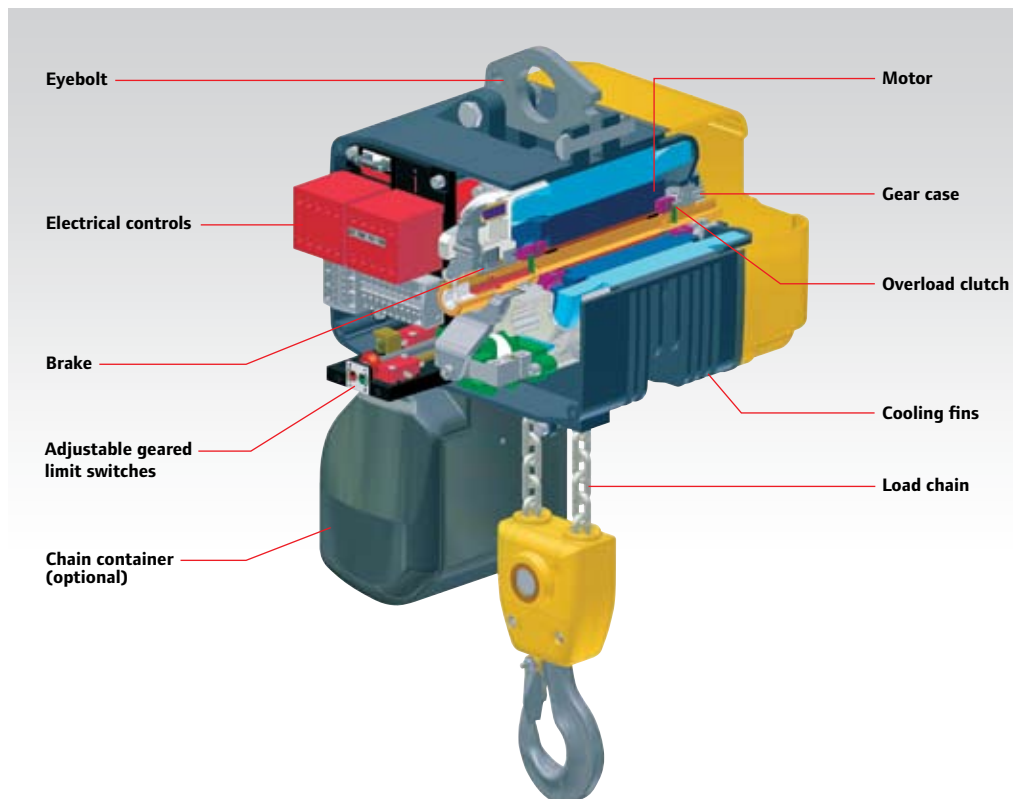
Reliability — With high starting torque, Quantum motors use a totally enclosed non-ventilated (TENV) squirrel cage design. The H4 duty classification allows for 300 starts and 30 minutes “on-time” per hour. Class F insulation provides a total thermal rating of 145°C at a 1.0 service factor, instead of the more common Class B insulation of 120° C.

Safety — State-of-the-art AC motor brakes with all-steel discs. Multiple stacking significantly increases braking surface area, reducing wear and extending life. Quantum brake discs are guaranteed for the life of the hoist. The overload clutch is factory-set to limit Quantum from lifting loads in excess of 150% of rated hoisting capacity.

Ergonomics — Safety-first pendent control handles are comfortable and fit securely in the operator’s hand. Each low-voltage (42-volt) control handle integrates a large, red emergency stop button. Operating buttons are clearly marked with high contrast arrows, feature soft-push action, and are horizontally aligned for easier operation.



Electric Chain Hoists



Quantum Series

0.125 to 5 metric ton lifting capacities

Quantum Series Specifications

Model	Capacity		# Falls	Motor hp	Hook Mount Headroom		Trolley Mount Headroom		Lifting Speed Rated Load or No Load		Lowering Speed Rated Load or No Load		Chain Weight (per foot of lift)		Net Weight w/10 ft of lift	
	lb	metric tons			in	mm	in	mm	ft/min	m/min	ft/min	m/min	lb	kg	lb	kg
THREE-PHASE (SINGLE SPEED)																
QCH50-1NS12	275	0.125	1	1	17.1	435	17.4	441.3	32	9.8	32	9.8	0.4	0.2	45	20.4
QCH50-1NS25	550	0.25	1	1	17.1	435	17.4	441.3	32	9.8	32	9.8	0.4	0.2	45	20.4
QCH50-1NS50	1,100	0.50	1	1	17.1	435	17.4	441.3	32	9.8	32	9.8	0.4	0.2	45	20.4
QCH50-2NS100	2,200	1	2	1	18.8	476.3	18.9	481	16	4.9	16	4.9	0.7	0.3	50	22.7
QCH100-1NS100	2,200	1	1	2.1	21.8	553.2	21.5	545.3	32	9.8	32	9.8	0.7	0.3	99	44.9
QCH100-2NS200	4,400	2	2	2.1	24.7	627.1	24.4	619.9	16	4.9	16	4.9	1.4	0.6	110	49.9
QCH300-1NS200	4,400	2	1	4.2	25.4	646.1	26.4	671.5	32	8	32	9.8	1.5	0.7	143	64.9
QCH200-2NS300	6,600	3	2	3.2	28.7	727.9	29.8	756.4	16	4.9	16	4.9	3	1.4	161	73
QCH300-2NS400	8,800	4	2	4.2	28.7	727.9	29.7	753.3	16	4.9	16	4.9	3	1.4	168	76.2
QCH500-2NS500	11,000	5	2	4.2	28.7	727.9	29.7	754.9	12.5	3.8	12.5	3.8	3	1.4	168	76.2
THREE-PHASE (DUAL SPEED)																
QCH50-1ND12	275	0.125	1	1	17.1	435	17.4	441.3	32 / 8	9.8 / 2.4	32 / 8	9.8 / 2.4	0.4	0.2	50	22.7
QCH50-1ND25	550	0.25	1	1	17.1	435	17.4	441.3	32 / 8	9.8 / 2.4	32 / 8	9.8 / 2.4	0.4	0.2	50	22.7
QCH50-1HD25	550	0.25	1	1	17.1	435	17.4	441.3	50 / 12	15.2 / 3.7	50 / 12	15.2 / 3.7	0.4	0.2	50	22.7
QCH50-1ND50	1,100	0.50	1	1	17.1	435	17.4	441.3	32 / 8	9.8 / 2.4	32 / 8	9.8 / 2.4	0.4	0.2	50	22.7
QCH50-2ND100	2,200	1	2	1	18.8	476.3	18.9	481	16 / 4	4.9 / 1.2	16 / 4	4.9 / 1.2	0.7	0.3	55	24.9
QCH100-1ND100	2,200	1	1	2.1	21.8	553.2	21.5	545.3	32 / 8	9.8 / 2.4	32 / 8	9.8 / 2.4	0.7	0.3	101	45.8
QCH100-2ND200	4,400	2	2	2.1	24.7	627.1	24.4	619.9	16 / 4	4.9 / 1.2	16 / 4	4.9 / 1.2	1.4	0.6	112	50.8
QCH300-1ND200	4,400	2	1	4.2	25.4	646.1	26.4	671.5	32 / 8	9.8 / 2.4	32 / 8	9.8 / 2.4	1.5	0.7	147	66.7
QCH200-2ND300	6,600	3	2	3.2	28.7	727.9	29.8	756.4	16 / 4	4.9 / 1.2	16 / 4	4.9 / 1.2	3	1.4	165	74.8
QCH300-2ND400	8,800	4	2	4.2	28.7	727.9	29.7	753.3	16 / 4	4.9 / 1.2	16 / 4	4.9 / 1.2	3	1.4	172	78
QCH500-2ND500	11,000	5	2	4.2	28.7	727.9	29.7	754.9	12.5 / 3	3.8 / 0.9	12.5 / 3	3.8 / 0.9	3	1.4	172	78



Eyebolt and hook suspension



Motorized trolley suspension



PT Series plain trolley with hook suspension

Quantum Series

0.125 to 5 metric ton lifting capacities

Handy Handle control — QCH50 models only

This ergonomically designed control enables precise operation at the hook and acts as a robotic power extension of the operator's arm. The load can be positioned and controlled with one hand, freeing the other to position the load.

The Handy Handle can be ordered separately as part of a kit, to convert any 0.125-, 0.25-, and 0.50-ton single-line Quantum hoist, or as an "H" control option on a new hoist. Each Handy Handle comes standard with single- or dual-speed thumb control lever switches and red emergency stop button. A socket connection at the bottom allows the standard hook to be easily replaced by custom-end effectors or grabs.



Quantum Series Motorized Trolley Specifications – M1, M2, and M4

Model	Traverse Speed ft/min (m/min)			Amperage			Min. in (mm)	Min. in (mm)	Flange Width in (mm)				Weight lb (kg)													
	M1	M2	M4	230V	460V	575V	Beam Height	Curve Radius	A	B	C	D														
QCH50-1NS12	48 (14.6)	48/16 (14.6/4.9)	72/24 (21.9/7.3)	1.5	0.75	0.6	4 (101.6)	48 (1219.2)	2.0 - 3.9 (50.8 - 99.1)	4.0 - 5.9 (101.6 - 149.9)	6.0 - 7.8 (152.4 - 198.1)	7.9 - 9.4 (200.7 - 238.8)	60 (27.2)													
QCH50-1ND12																										
QCH50-1NS25																										
QCH50-1ND25																										
QCH50-1NS50																										
QCH50-1ND50																										
QCH50-2NS100																										
QCH50-2ND100																										
QCH100-1NS100																										
QCH100-1ND100																										
QCH100-2NS200	48 (14.6)	48/16 (14.6/4.9)	72/24 (21.9/7.3)	1.5	0.75	0.6	6 (152.4)	60 (1524.0)	3.0 - 5.5 (76.2 - 139.7)	5.6 - 7.8 (142.2 - 198.1)	7.9 - 10.2 (200.7 - 259.1)	10.3 - 12.6 (261.6 - 320.0)	70 (31.7)													
QCH100-2ND200																										
QCH300-1NS200																										
QCH300-1ND200																										
QCH200-2NS300																										
QCH200-2ND300																										
QCH300-2NS400																										
QCH300-2ND400																										
QCH500-2NS500														3	1.5	1.2	3	1.5	1.2	6 (152.4)	72 (1828.8)	2.2 - 4.7 (55.9 - 119.4)	4.8 - 7.0 (121.9 - 177.8)	7.1 - 9.4 (180.3 - 238.8)	9.5 - 11.8 (241.3 - 299.7)	110 (49.9)
QCH500-2ND500																										

Quantum Series

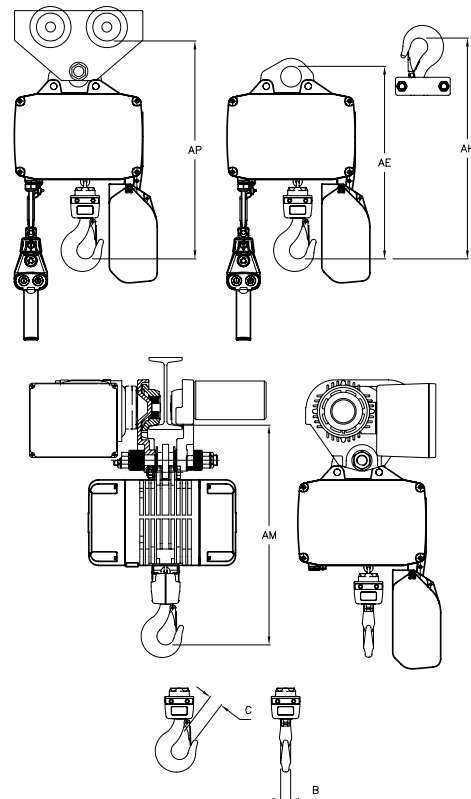
0.125 to 5 metric ton lifting capacities

Quantum Series Dimensions

QCH Base Model	Capacity			Headroom											
	lb	Metric Tons	Falls	Eyebolt (AE)		Hook (AH)		Push Trolley (AP)		Motor Trolley (AM)		Hook (B)		Hook (C)	
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
THREE PHASE (SINGLE SPEED)															
QCH50-1NS12	275	0.125	1	14.8	375.9	17.1	434.3	17.4	442	16.8	426.7	0.9	22.9	1	25.4
QCH50-1NS25	550	0.25	1	14.8	375.9	17.1	434.3	17.4	442	16.8	426.7	0.9	22.9	1	25.4
QCH50-1NS50	1,100	0.50	1	14.8	375.9	17.1	434.3	17.4	442	16.8	426.7	0.9	22.9	1	25.4
QCH50-2NS100	2,200	1	2	16.4	416.6	18.8	477.5	18.9	480.1	18.3	464.8	0.9	22.9	1	25.4
QCH100-1NS100	2,200	1	1	19	482.6	21.8	553.7	21.5	546.1	21.3	541	1	25.4	1.3	33
QCH100-2NS200	4,400	2	2	21.9	556.3	24.7	627.4	24.4	619.8	24.3	617.2	1	25.4	1.3	33
QCH300-1NS200	4,400	2	1	23.9	607.1	25.4	645.2	26.4	670.6	26.2	665.5	1.5	38.1	1.6	40.6
QCH200-2NS300	6,600	3	2	27.2	690.9	28.7	729	29.8	756.9	29.3	744.2	1.5	38.1	1.6	40.6
QCH300-2NS400	8,800	4	2	27.2	690.9	28.7	729	29.7	754.4	29.3	744.2	1.5	38.1	1.6	40.6
QCH500-2NS500	11,000	5	2	27.2	690.9	28.7	729	29.7	754.4	29.3	744.2	1.5	38.1	1.6	40.6
THREE PHASE (DUAL SPEED)															
QCH50-1ND12	275	0.125	1	14.8	375.9	17.1	434.3	17.4	442	16.8	426.7	0.9	22.9	1	25.4
QCH50-1ND25	550	0.25	1	14.8	375.9	17.1	434.3	17.4	442	16.8	426.7	0.9	22.9	1	25.4
QCH50-1HD25	550	0.25	1	14.8	375.9	17.1	434.3	17.4	442	16.8	426.7	0.9	22.9	1	25.4
QCH50-1ND50	1,100	0.50	1	14.8	375.9	17.1	434.3	17.4	442	16.8	426.7	0.9	22.9	1	25.4
QCH50-2ND100	2,200	1	2	16.4	416.6	18.8	477.5	18.9	480.1	18.3	464.8	0.9	22.9	1	25.4
QCH100-1ND100	2,200	1	1	19	482.6	21.8	553.7	21.5	546.1	21.3	541	1	25.4	1.3	33
QCH100-2ND200	4,400	2	2	21.9	556.3	24.7	627.4	24.4	619.8	24.3	617.2	1	25.4	1.3	33
QCH300-1ND200	4,400	2	1	23.9	607.1	25.4	645.2	26.4	670.6	26.2	665.5	1.5	38.1	1.6	40.6
QCH200-2ND300	6,600	3	2	27.2	690.9	28.7	729	29.8	756.9	29.3	744.2	1.5	38.1	1.6	40.6
QCH300-2ND400	8,800	4	2	27.2	690.9	28.7	729	29.7	754.4	29.3	744.2	1.5	38.1	1.6	40.6
QCH500-2ND500	11,000	5	2	27.2	690.9	28.7	729	29.7	754.4	29.3	744.2	1.5	38.1	1.6	40.6

Quantum Series Weight

QCH Base Model	Eyebolt or Hook		Push Trolley		Motor Trolley	
	lb	kg	lb	kg	lb	kg
THREE PHASE (SINGLE SPEED)						
QCH50-1NS12	45	20.4	65	29.5	105	47.6
QCH50-1NS25	45	20.4	65	29.5	105	47.6
QCH50-1NS50	45	20.4	65	29.5	105	47.6
QCH50-2NS100	50	22.7	80	36.3	110	49.9
QCH100-1NS100	99	44.9	129	58.5	173	78.5
QCH100-2NS200	110	49.9	165	74.8	184	83.4
QCH300-1NS200	143	64.9	198	89.8	257	116.6
QCH200-2NS300	161	73	236	107	281	127.4
QCH300-2NS400	168	76.2	274	124.3	282	127.9
QCH500-2NS500	168	76.2	274	124.3	282	127.9
THREE PHASE (DUAL SPEED)						
QCH50-1ND12	50	22.7	70	31.7	110	49.9
QCH50-1ND25	50	22.7	70	31.7	110	49.9
QCH50-1HD25	50	22.7	70	31.7	110	49.9
QCH50-1ND50	50	22.7	70	31.7	110	49.9
QCH50-2ND100	55	24.9	85	38.5	115	52.2
QCH100-1ND100	101	45.8	131	59.4	175	79.4
QCH100-2ND200	112	50.8	167	75.7	186	84.4
QCH300-1ND200	147	66.7	202	91.6	261	118.4
QCH200-2ND300	165	74.8	240	108.8	285	129.3
QCH300-2ND400	172	78.0	278	126.1	286	129.7
QCH500-2ND500	172	78.0	278	126.1	286	129.7



Quantum Series

0.125 to 5 metric ton lifting capacities

► HOW TO ORDER

Example: QCH100-2NS200M1-21-17B4C

QCH100-2NS200

M1

21

17

B

4

C

Base model

3 phase single speed

QCH50-1NS12
QCH50-1NS25
QCH50-1NS50
QCH50-2NS100
QCH100-1NS100
QCH100-2NS200
QCH300-1NS200
QCH200-2NS300
QCH300-2NS400
QCH500-2NS500

3 phase dual-speed

QCH50-1ND12
QCH50-1ND25
QCH50-1HD25
QCH50-1ND50
QCH50-2ND100
QCH100-1ND100
QCH100-2ND200
QCH300-1ND200
QCH200-2ND300
QCH300-2ND400
QCH500-2ND500

Suspension type

E = Eye bolt
H = Hook
P = Plain trolley ("PT" Series)
M1 = Motorized trolley (normal speed 48 fpm)
M2 = Motorized trolley (normal/dual speed 48/16 fpm)
M4 = Motorized trolley (high/dual speed 96/24 fpm)

Lift (feet)

10 = Standard
15 = Standard
20 = Standard
XX = Specify length

Pendent drop (feet)

6 = Standard
11 = Standard
16 = Standard
XX = Specify length

Flange width

(See catalog for specifications)

- = Eye bolt or hook mount
A = See flange width chart
B = See flange width chart
C = See flange width chart
D = See flange width chart

Voltage

3 = 230/3/60
4 = 460/4/60
5 = 575/3/60
6 = 380/3/50*
(* = these units have extended lead times and are not UL or C-UL (Canadian UL) listed)

Options

B = Trolley brake
C = Chain container
E = External strain relief
F = XX, specify power cord length (standard is 15 ft on E, H, and P, and 3 ft on M1-M4 suspensions)
H = Handy Handle (QCH50 single fall only)
K = 110 volt control (3 phase models only)
P = Pendent with vertical aligned buttons
P2 = Pendent with 2 extra vertical aligned buttons
P4 = Pendent with 4 extra vertical aligned buttons
Y = Bullard top hook
Z = Bullard bottom hook

ULE2 Ultra-Lo Series

0.25 to 24 ton lifting capacity

Features

The complete line of low-headroom Ingersoll Rand worm-gear-driven electric and air hoists provides smooth, quiet, trouble-free operation. All models are tested in accordance with ANSI B30.16 overhead hoist standards.

- Large-diameter chain wheels for improved chain wear
- Worm gear drive for maximum control and durability
- Plain, motorized, and hand chain trolleys
- Dual up and down limits for added safety
- NEMA-12 enclosure for weather-resistant pendant controls
- Design flexibility allows custom configurations to be offered and priced on request
- Dual- and self-braking worm drive and spring-applied motor brake
- Explosion-proof units and spark- and corrosion-resistant features can be customized to fit applications and priced on request
- Quick response time to quotes and reduced lead time on delivery



ULE2 Electric Series Specifications

Model	Capacity			Motor hp	Trolley Mount Headroom		Lifting Speed		Lowering Speed		Net Weight Plain Trolley		Net Weight Geared Trolley		Net Weight Motorized Trolley	
	lb	U.S. tons	# Falls		in	mm	Rated Load or No Load ft/min	Rated Load or No Load m/min	Rated Load or No Load ft/min	Rated Load or No Load m/min	lb	kg	lb	kg	lb	kg
ULE2_010-8-6	2,000	1	N/A	2	7	177.8	10	3.1	10	3.1	440	199.5	470	213.2	480	217.7
ULE2_015-8-6	3,000	1.5	N/A	2	7	177.8	10	3.1	10	3.1	440	199.5	470	213.2	480	217.7
ULE2_020-8-6	4,000	2	N/A	2	7	177.8	10	3.1	10	3.1	440	199.5	470	213.2	480	217.7
ULE2_030-8-6	6,000	3	N/A	2	8	203.2	5	1.5	5	1.5	540	244.9	570	258.5	580	263
ULE2_040-8-6	8,000	4	N/A	2	8.5	215.9	5	1.5	5	1.5	540	244.9	570	258.5	580	263
ULE2_050-8-6	10,000	5	N/A	4	9.5	241.3	7	2.1	7	2.1	1,280	580.5	1,340	607.7	1,310	594.1
ULE2_060-8-6	12,000	6	N/A	4	9.5	241.3	7	2.1	7	2.1	1,280	580.5	1,340	607.7	1,310	594.1
ULE2_080-8-6	16,000	8	N/A	4	12	304.8	4	1.2	4	1.2	1,350	612.2	1,480	671.2	1,400	634.9
ULE2_100-8-6	20,000	10	N/A	4	12.5	317.5	3.5	1.1	3.5	1.1	1,730	784.6	1,810	820.9	1,780	807.3
ELE2_120-8-6*	24,000	12	N/A	4	12.5	317.5	3.5	1.1	3.5	1.1	1,730	784.6	1,810	820.9	1,780	807.3
ULE2_160-8-6*	32,000	16	N/A	4	14.5	368.3	2	0.6	2	0.6	2,300	1043.1	2,380	1079.4	2,350	1065.8
ULE2_200-8-6*	40,000	20	N/A	4	18	457.2	1.7	0.5	1.7	0.5	2,650	1201.8	2,810	1274.4	2,750	1247.2
ULE2_240-8-6*	48,000	24	N/A	4	18	457.2	1.7	0.5	1.7	0.5	2,650	1201.8	2,810	1274.4	2,750	1247.2

Notes:

Standard lift is 10 ft.

* For over 10 U.S. ton capacity, straight track operation is recommended.

Curved radius must be specified on orders, since wheels must be modified to negotiate curves.

Curves less than minimum radius may be fitted upon application. Consult Customer Service for further information.

ULA2 air hoist specifications and dimensions are similar. Consult Customer Service if accurate data is required.

ULE2 Ultra-Lo Series

0.25 to 24 ton lifting capacity

ULE2 Series Dimensions†

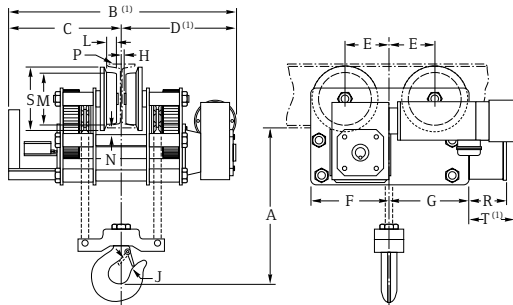
Model	A in	B in	C in	D in	E in	E1 in	F in	G in	H in	J in	L in	M in	N in	P* in	R in	S in	T** in
ULE2_010-8-6	7	33	16.5	16.5	7.8	7.8	12	10	0.6	1.1	1.1	4.5	0.9	S6X12.5	6	6	9.3
ULE2_015-8-6	7	33	16.5	16.5	7.8	7.8	12	10	0.6	1.1	1.1	4.5	0.9	S6X12.5	6	6	9.3
ULE2_020-8-6	7	33	16.5	16.5	7.8	7.8	12	10	0.6	1.1	1.1	4.5	0.9	S6X12.5	6	6	9.3
ULE2_030-8-6	8	33	16.5	16.5	9	9	14	13	0.6	1.3	1.3	6.4	1	S8X18.4	6	8	5.5
ULE2_040-8-6	8.5	33	16.5	16.5	9	9	14	13	0.6	1.7	1.3	6.4	1	S8X18.4	6	8	5.5
ULE2_050-8-6	9.5	50.5	23.5	24.9	7.4	7.4	12	15	0.9	1.7	1.4	7.2	0.9	S10X25.4	6	9	12
ULE2_060-8-6	9.5	50.5	23.5	24.9	7.4	7.4	12	15	0.9	1.7	1.4	7.2	0.9	S10X25.4	6	9	12
ULE2_080-8-6	12	50.5	23.5	24.9	8.4	8.9	14	13.5	0.6	2.1	1.7	8.3	1.1	S10X25.4	6	10	12
ULE2_100-8-6	12.5	50.5	23.5	24.9	8.5	9.8	15.6	14.4	0.6	2.3	1.8	9.8	0.9	S12X31.8	6	11.7	10
ULE2_120-8-6	12.5	50.5	23.5	24.9	8.5	9.8	15.6	14.4	0.6	2.3	1.8	9.8	0.9	S12X31.8	6	11.7	10
ULE2_160-8-6	14.5	54.5	25.5	26.9	11.9	11.9	18.6	18.6	0.6	3	2	11.8	1	S15X42.9	6	13.5	3.5
ULE2_200-8-6	18	54.5	25.5	26.9	12.1	12.4	19.3	19	0.8	3.6	2	11.8	1	S18X54.7	6	13.5	2.5
ULE2_240-8-6	18	54.5	25.5	26.9	12.1	12.4	19.3	19	0.8	3.6	2	11.8	1	S18X54.7	6	13.5	2.5

Notes:

†ULA2 air hoist specifications and dimensions are similar. Consult Customer Service for further information.

*Minimum standard I-beam for proper wheel running clearance. Contact factory for smaller beams. Customer must verify beam is adequate for applied loads.

**For standard motor and brake only.



▶ HOW TO ORDER

Example: ULE2-MT-010-10-6TW

ULE2	-	MT	-	010	-	10	-	6	-	TW
<p>Base model</p> <p>ULA2 = Air ULE2 = Electric</p>		<p>Trolley options</p> <p>PT = Plain tapered PF = Plain flat MT = Motorized tapered MF = Motorized flat GT = Geared tapered GF = Geared flat</p>		<p>Capacity</p> <p>010 = 909 kg = 2,000 lb 015 = 1364 kg = 3,000 lb 020 = 1818 kg = 4,000 lb 030 = 2727 kg = 6,000 lb 040 = 3636 kg = 8,000 lb 050 = 4545 kg = 10,000 lb 060 = 5455 kg = 12,000 lb 080 = 7273 kg = 16,000 lb 100 = 9091 kg = 20,000 lb 120 = 10909 kg = 24,000 lb 160 = 14545 kg = 32,000 lb 200 = 18182 kg = 40,000 lb 240 = 21818 kg = 48,000 lb</p>		<p>Lift (ft)</p> <p>10 = 10 ft (standard) XX = Specify length</p>		<p>Pendent drop</p> <p>6 = 6 ft (standard) XX = Specify length</p>		<p>Options</p> <p>C = Chain container X = Electric mainline power interrupt and pendent buttons W = Electric (NEMA 4) watertight control box, limit switches and pendent T = Electric thermal overload relays — each single speed motor L = Electric fused control per leg of transformer secondary E = Electric motor fuses — single speed hoist F = Electric motor fuses — single speed hoist and trolley</p>

NOTES:

S*COR*E options and marine finish are available. Consult factory for flange widths over - 6" up to 1 t - 6.625" up to 1.50 and 2 t 7.25" on 3 and 4 t - 8.25" on 5 to 12 t.
Ultra-Lo hoists are not adjustable for varying beam sizes. Beam type, size, height, width and curve radius required for all orders. Customer to verify their beam is adequate for loads applied.

Electric Chain Hoists

Portable Air Winches



Ingersoll Rand portable air winches are designed for lifting and pulling in some of the most demanding conditions and tough environments worldwide. Equipped with powerful Gear or Radial Piston air motors these winches provide high torque output that translates into smooth starts and stops with excellent proportional control. Lightweight and compact for portability, yet the rugged iron and steel construction makes them ready to take on your most challenging applications.

Capacities range from 660 lb (300 kg) to 5,290 lb (2400 kg).

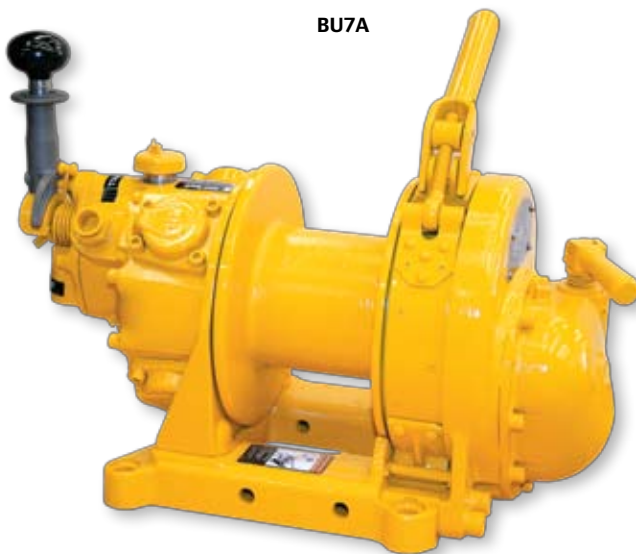
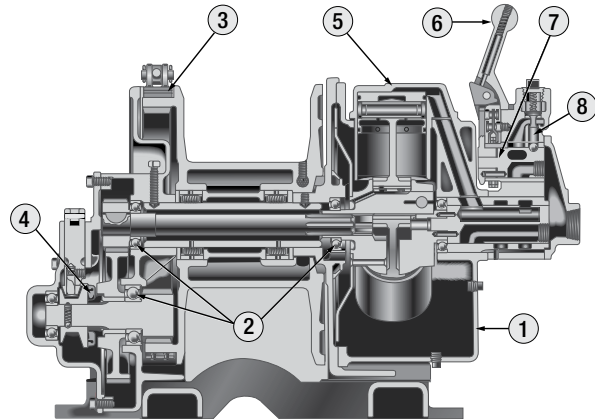
BU7A / EU Series

Features and benefits

Serving the construction and maintenance industries for more than 60 years, the Ingersoll Rand BU7A and EU series air winches have become the industry standard. These proven performers offer exceptional quality and value. Both winches are available with automatic band brakes, remote controls, and a variety of options. All Ingersoll Rand air winches meet ANSI / ASME B30.7.

Standard features:

1. Enclosed construction keeps out dirt and dust and seals in oil and grease for complete lubrication of all moving parts.
2. Ball and roller bearings = reduced friction.
3. Reliable drum brake securely holds rated load.
4. Disengaging clutch allows free wheeling of rope drum for hand unwinding; standard on most models.
5. Rugged and powerful radial piston air motor for positive starting torque and precise load control.
6. Self-closing throttle shuts off automatically when released, providing well-graduated control for spotting loads.
7. Reversible motor allows full control of load by throttle when lifting, lowering and pulling.
8. Throttle valve is designed to eliminate air leakage when the winch is idle.



BU7A / EU Series

Specifications and performance

Selection Guide A

Model	First Layer				Mid Layer				Top Layer				Motor Type	Air Consumption	
	Capacity lb	Capacity kg	Speed ft/min	Speed m/min	Capacity lb	Capacity kg	Speed ft/min	Speed m/min	Capacity lb	Capacity kg	Speed ft/min	Speed m/min		f ³ /min	m ³ /min
LIFT RATINGS AT 5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])															
BU7A	1,200	545	36	11	1,000	455	43	13	1,000	455	39	12	Piston	50	1.4
EU	2,100	955	62	19	2,000	909	68	21	2,000	909	64	20	Piston	100	2.8
EUL	2,100	955	62	19	2,000	909	68	21	2,000	909	64	20	Piston	100	2.8
PULL RATINGS AT 3.5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])															
BU7A	1,500	682	26	8	1,200	545	34	10	1,000	455	39	12	Piston	50	1.4
EU	3,000	1364	45	14	2,600	1182	49	15	2,000	909	64	20	Piston	100	2.8
EUL	3,000	1364	45	14	2,600	1182	49	15	2,000	909	64	20	Piston	100	2.8

Selection Guide B

Model	Rated Capacity		Stall Pull		Recommended Wire Rope		Working Wire Rope Capacity ⁽¹⁾ by Layer						Wire Rope Storage Capacity ⁽²⁾		Inlet Size	Exhaust Size	Shipping Weight		
	hp	lb	kg	lb	kg	in	mm	ft	ft	m	ft	m	ft	m	NPT	NPT	lb	kg	
LIFT RATINGS AT 5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])																			
BU7A	1.6	1,000	455	1,950	886	1/4	6	21	6.4	97	29.5	155	47.2	228	69.4	1/2"	3/4"	90	41
BU7A	1.6	1,000	455	1,950	886	5/16	8	16	4.8	56	17	101	30.7	132	40.2	1/2"	3/4"	90	41
EU	4.4	2,000	909	4,500	2045	5/16	8	23	7	141	42.9	248	75.5	338	103	3/4"	1"	118	54
EU	4.4	2,000	909	4,500	2045	3/8	10	19	5.7	92	28	179	54.5	219	66.7	3/4"	1"	118	54
EU	4.4	2,000	909	4,500	2045	7/16	11	16	4.8	80	24.3	128	39	163	49.6	3/4"	1"	118	54
EUL	4.4	2,000	909	4,500	2045	5/16	8	66	20.1	394	120	701	213.6	946	288.3	3/4"	1"	490	223
EUL	4.4	2,000	909	4,500	2045	3/8	10	55	16.7	259	78.9	515	156.9	619	188.6	3/4"	1"	490	223
EUL	4.4	2,000	909	4,500	2045	7/16	11	47	14.3	162	49.3	375	114.3	465	141.7	3/4"	1"	490	223
PULL RATINGS AT 3.5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])																			
BU7A	1.6	1,200	545	1,950	886	1/4	6	21	6.4	97	29.5	155	47.2	228	69.4	1/2"	3/4"	90	41
BU7A	1.6	1,200	545	1,950	886	5/16	8	16	4.8	56	17	101	30.7	132	40.2	1/2"	3/4"	90	41
EU	4.4	2,600	1182	4,500	2045	5/16	8	23	7	141	42.9	248	75.5	338	103	3/4"	1"	118	54
EU	4.4	2,600	1182	4,500	2045	3/8	10	19	5.7	92	28	179	54.5	219	66.7	3/4"	1"	118	54
EU	4.4	2,600	1182	4,500	2045	7/16	11	16	4.8	80	24.3	128	39	163	49.6	3/4"	1"	118	54
EUL	4.4	2,600	1182	4,500	2045	5/16	8	66	20.1	394	120	701	213.6	946	288.3	3/4"	1"	490	223
EUL	4.4	2,600	1182	4,500	2045	3/8	10	55	16.7	259	78.9	515	156.9	619	188.6	3/4"	1"	490	223
EUL	4.4	2,600	1182	4,500	2045	7/16	11	47	14.3	162	49.3	375	114.3	465	141.7	3/4"	1"	490	223

(1) Working wire rope capacity:

Maximum length of wire rope that can be tightly and evenly wound onto the drum with 1/2" of freeboard maintained per ANSI / ASME B30.7.

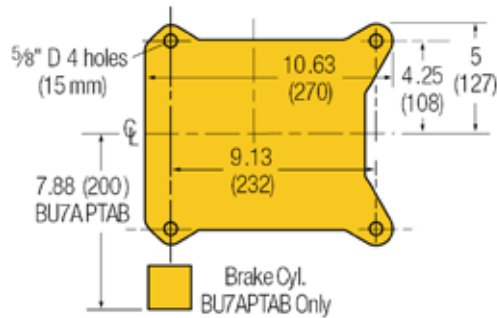
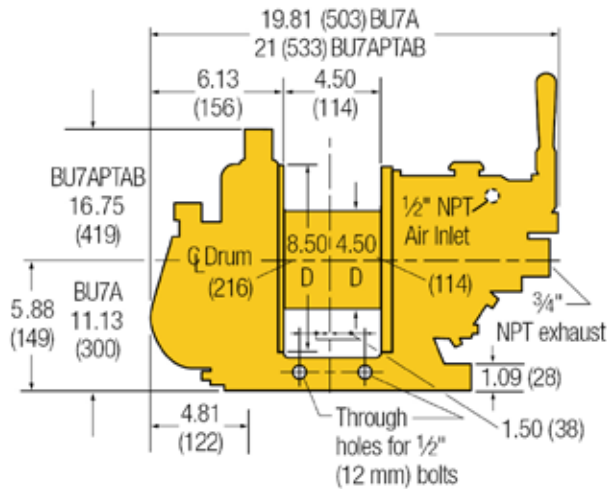
(2) Wire rope storage capacity:

When the winch is not being used to move a load, the wire rope may be spooled to the top of the flange. This practice is for storage purposes only and not recommended when the winch is being used under a load.

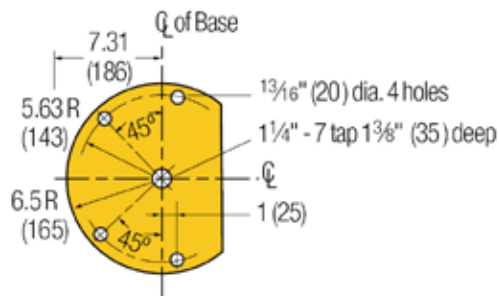
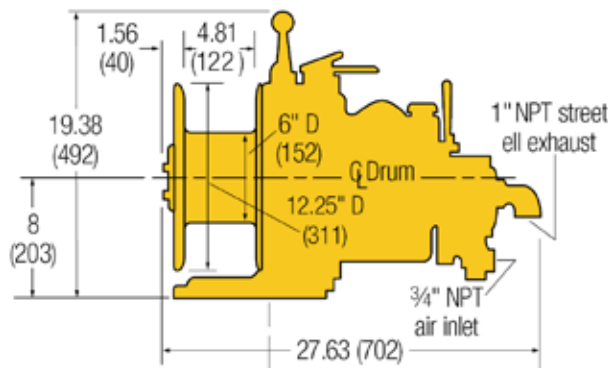
BU7A / EU Series

BU7A/EU dimension drawings — 1,000 – 2,000 lb (455 – 909 kg)

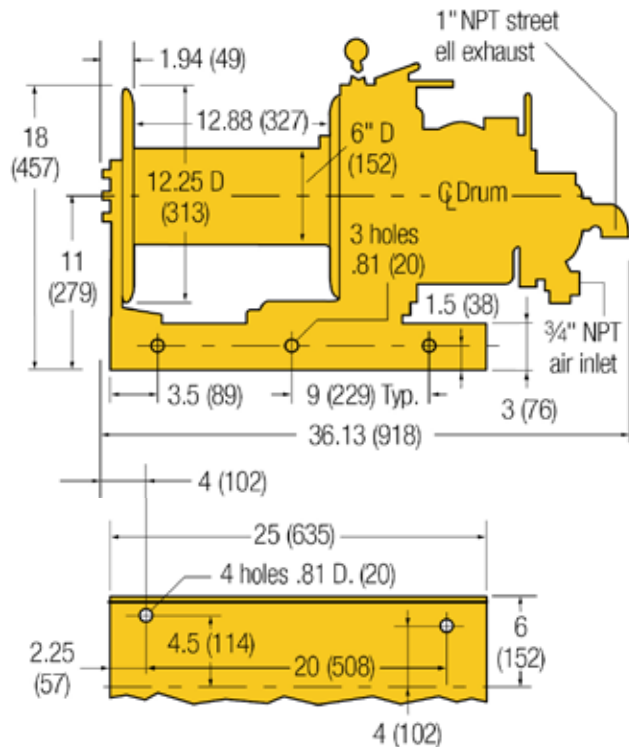
Dimensions: BU7A and BU7APTAB



Dimensions: EU



Dimensions: EUL



Dimensions shown are inches.
Dimensions in parentheses () are mm.

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

Portable
Air Winches

BU7A / EU Series

How to order

► HOW TO ORDER

Specify the model as shown.

Example: EURCAB-GP1-20

EU	RC	AB	-	GP1-20
Series / capacity BU7A = 1,000 lbs (454 kg) EU = 2,000 lbs (907 kg) EUL = 2,000 lbs (907 kg)	Control No letter = Winch mounted lever throttle PT = Pendent throttle RC = Remote full flow lever throttle PT = Remote pilot pendent throttle PLT = Remote pilot lever throttle	Drum brake No letter = Manual drum brake AB = Automatic brake		Options E = Construction cage G = Drum guard J = Air line accessories L = Extended warranty P = Marine 812 finish paint P1 = Marine 812-X paint system W = Client witness of load test -XX = Specify control hose length in feet

NOTE:

- (1) RC without AB is for pulling applications only. Do not use for lifting or lowering, as the operator may be too far away to operate a manual brake.
- (2) Free spool clutches are standard on classic winches. A disengaging clutch, however, will not be supplied on units ordered with automatic brakes (AB).

Ingersoll Rand strongly recommends using drum guards with all winches to prevent inadvertent contact with winch moving parts.



Shown with remote control pendent and manual band brake for pulling application only!

LS2 / PS2 Series

Features and benefits

- Lightweight and compact design, easy to carry.
- Designed in conformity with the latest ASME B30.7 and European Standards (FEM classification 1 Bm).
- Robust steel construction, 5:1 design factor for lifting (LIFTSTAR®), 3.5:1 for pulling (PULLSTAR®)
- Reliable gear type air motor is made from composite material. The high efficiency planetary gear box and automatic disc brake ensure smooth operation.
- Internal muffler — low noise level, quiet operation. Less than 80 dba.
- Variable speed and precise positioning through direct control lever or progressive remote pendant “PHS.”
- Free spool clutch on the PULLSTAR® pulling versions.
- CE package for European models includes as standard: drum guard, emergency stop valve on all units, overload device (LIFTSTAR® lifting series only).

LS2-600R-L with
optional E-stop



LS1500R-L



Tip:

A LIFTSTAR® winch always lifts its “rated load” capacity, no matter what layer of wire rope it is operating on.

LS2 / PS2 Series

Specifications and performance

Selection Guide A

Model	First Layer				Mid Layer				Top Layer				Motor Type	Air Consumption	
	Capacity lb	Capacity kg	Speed ft/min	Speed m/min	Capacity lb	Capacity kg	Speed ft/min	Speed m/min	Capacity lb	Capacity kg	Speed ft/min	Speed m/min		ft ³ /min	m ³ /min
LIFT RATINGS AT 5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])															
LS2-300R	660	300	131	40	660	300	131	40	660	300	131	40	Gear	141	4
LS2-600R	1,320	600	65	20	1,320	600	65	20	1,320	600	65	20	Gear	141	4
LS1500R	3,300	1500	23	7	3,300	1500	23	7	3,300	1500	23	7	Gear	176	5
PULL RATINGS AT 3.5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])															
PS2-1000R	2,200	1000	39	12	1,764	800	49	15	1,320	600	65	20	Gear	141	4
PS2400R	5,280	2400	13	4	4,189	1900	16	5	3,300	1500	23	7	Gear	176	5

Selection Guide B

Model	hp	Rated Capacity		Stall Pull		Recommended Wire Rope		Working Wire Rope Capacity ⁽¹⁾ by Layer				Wire Rope Storage Capacity ⁽²⁾		Inlet Size NPT	Exhaust Size NPT	Shipping Weight			
		lb	kg	lb	kg	in	mm	First ft	First m	Mid ft	Mid m	Top ft	Top m			ft	m	lb	kg
LIFT RATINGS AT 5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])																			
LS2-300R	3.5	660	300	1,100	500	3/16	5	39	12	187	57	361	110	492	150	3/4"	NA	92	42
LS2-300R	3.5	660	300	1,100	500	1/4	6.5	29.5	9	105	32	190	58	292	89	3/4"	NA	92	42
LS2-300RGC	3.5	660	300	1,100	500	3/16	5	85	26	384	117	741	226	1,007	307	3/4"	NA	108	49
LS2-300RGC	3.5	660	300	1,100	500	1/4	6.5	62	19	216.5	66	397	121	600	183	3/4"	NA	108	49
LS2-600R	3.5	1,320	600	2,200	1000	1/4	6.5	29.5	9	105	32	190	58	292	89	3/4"	NA	92	42
LS2-600R	3.5	1,320	600	2,200	1000	5/16	8	23	7	52.5	16	85	26	161	49	3/4"	NA	92	42
LS2-600RGC	3.5	1,320	600	2,200	1000	1/4	6.5	62	19	216.5	66	397	121	600	183	3/4"	NA	108	49
LS2-600RGC	3.5	1,320	600	2,200	1000	5/16	8	52.5	16	115.5	34	180	55	335	102	3/4"	NA	108	49
LS1500R	4	3,300	1500	5,290	2400	3/8	10	26	8	62	19	98	30	187	57	3/4"	NA	148	67
LS1500RGC	4	3,300	1500	5,290	2400	3/8	10	59	18	131	40	213	65	394	120	3/4"	NA	174	79
PULL RATINGS AT 3.5:1 DESIGN FACTOR (PERFORMANCE AT 90 PSI [6.3 BAR])																			
PS2-1000R	3.5	2,200	1000	2,200	1000	1/4	6.5	29.5	9	105	32	190	58	292	89	3/4"	NA	90	41
PS2-1000R	3.5	2,200	1000	2,200	1000	5/16	8	23	7	52.5	16	85	26	161	49	3/4"	NA	90	41
PS2-1000R	3.5	2,200	1000	2,200	1000	3/8	10	26	6	NA	NA	42.5	13	102	31	3/4"	NA	90	41
PS2-1000RGC	3.5	2,200	1000	2,200	1000	1/4	6.5	62	19	216.5	66	397	121	600	183	3/4"	NA	104	47
PS2-1000RGC	3.5	2,200	1000	2,200	1000	5/16	8	52.5	16	115.5	34	180	55	335	102	3/4"	NA	104	47
PS2-1000RGC	3.5	2,200	1000	2,200	1000	3/8	10	39	12	NA	NA	92	28	210	64	3/4"	NA	104	47
PS2400R	4	5,290	2400	5,290	2400	3/8	10	26	8	62.3	19	98	30	187	57	3/4"	NA	137	62
PS2400RGC	4	5,290	2400	5,290	2400	3/8	10	59	18	131	40	213	65	394	120	3/4"	NA	168	76

(1) Working wire rope capacity:

Maximum length of wire rope that can be tightly and evenly wound onto the drum with two layers of freeboard maintained.

(2) Wire rope storage capacity:

When the winch is not being used to move a load, the wire rope may be spooled to the top of the flange. This practice is for storage purposes only and not recommended when the winch is being used under a load.

LS2 / PS2 Series

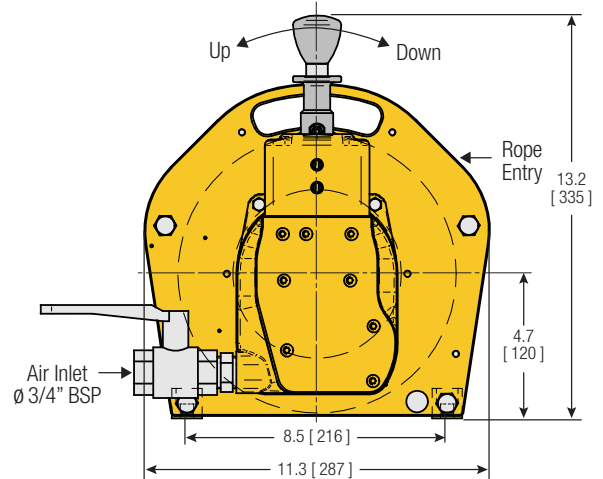
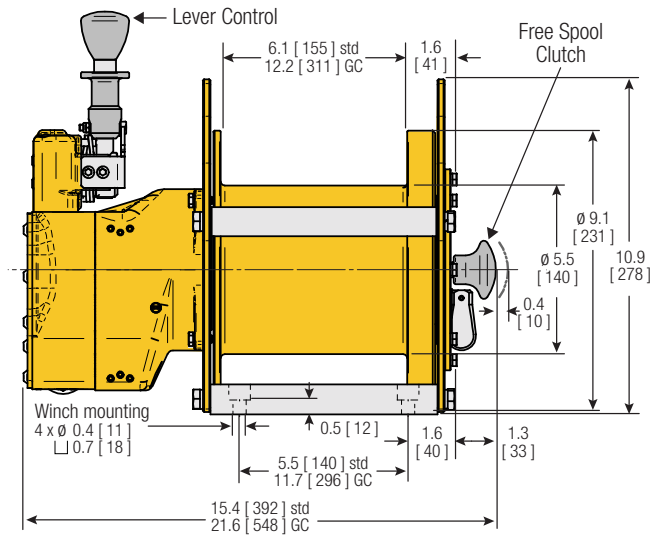
LS2/PS2 dimension drawings — 300 – 1000 kg (661 – 2204 lb)

LS2-300R-L, LS2-300RGC-L
LS2-600R-L, LS2-600RGC-L
PS2-1000R-L, PS2-1000RGC-L

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

GC = Long drum

(Free spool clutch with PULLSTAR® only)

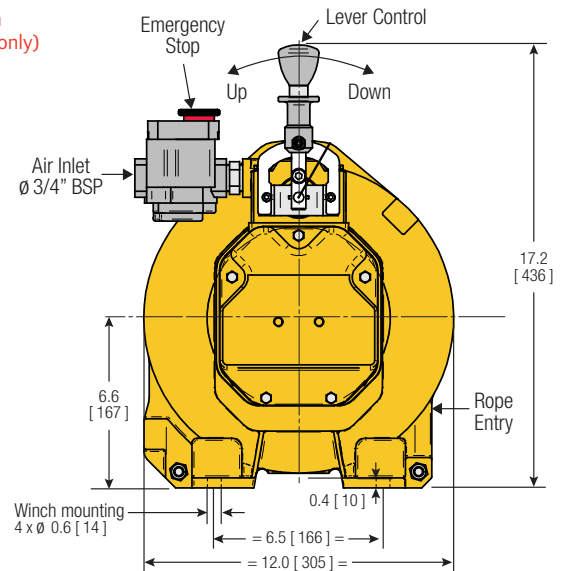
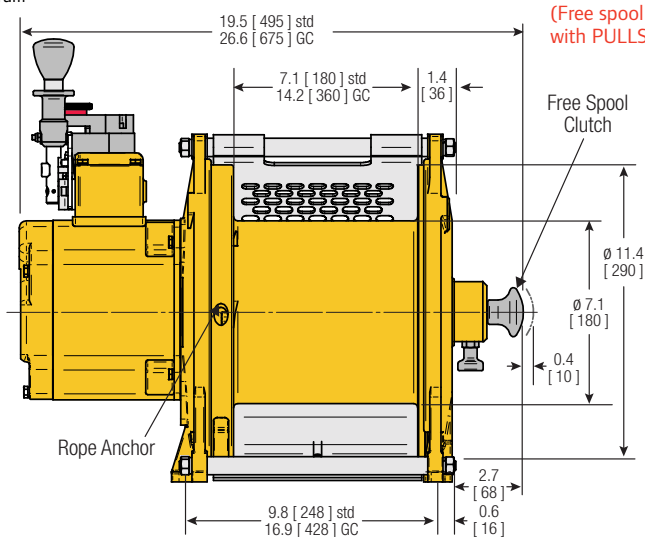


LS1500R-L, LS1500RGC-L
PS2400R-L, PS2400RGC-L

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

GC = Long drum

(Free spool clutch with PULLSTAR® only)



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

Drawings reflect optional overload / E-stop and limit switch.

Portable Air Winches

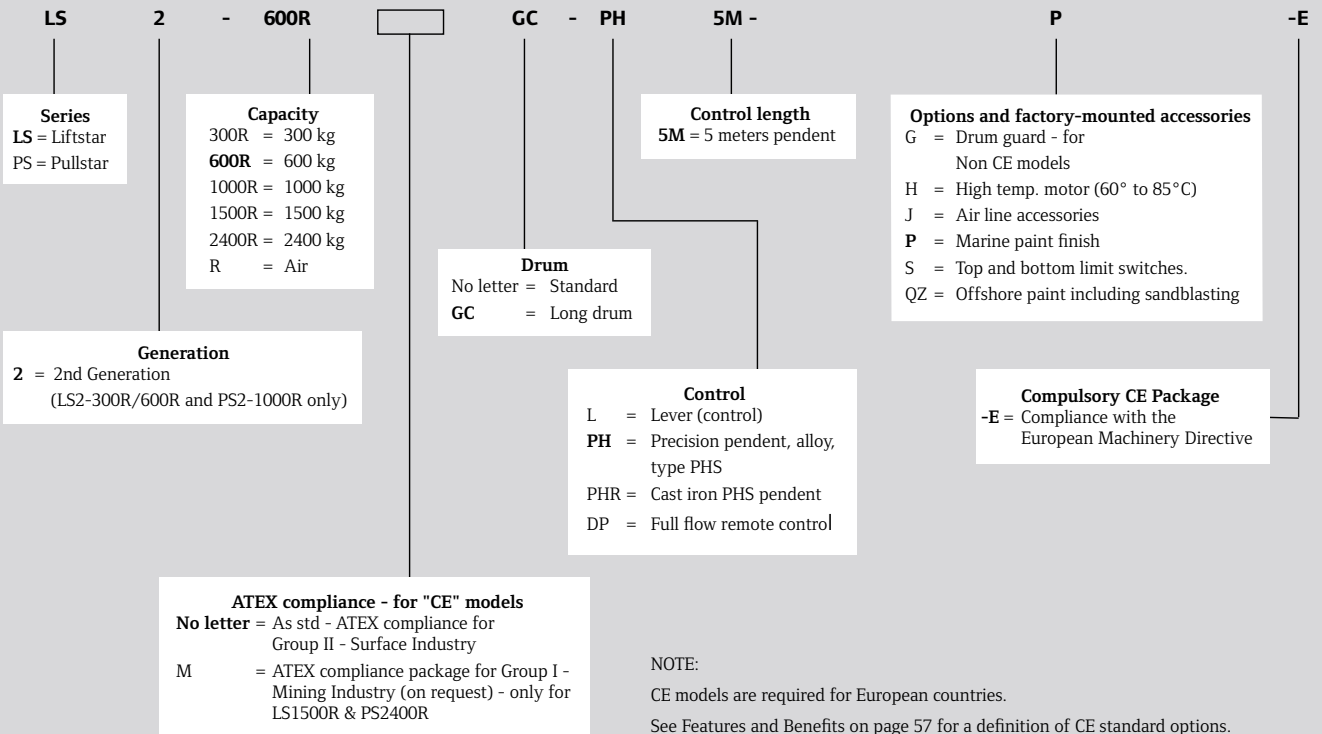
LS2 / PS2 Series

How to order

► HOW TO ORDER

Specify complete model code as shown. To order factory fitted options, add the appropriate letter suffix to the standard model number. For non-standard "PH" models, select PH base (no hose) and add full length of control.

Example: LS2-600RGC-PH5M-P-E



Ingersoll Rand strongly recommends using drum guards with all winches to prevent inadvertent contact with winch moving parts.



Trolleys and Beam Clamps



Ingersoll Rand offers a wide variety of plain, geared, or powered trolleys for use with all Ingersoll Rand hoists. We also offer the MTK air-powered tractor to push and pull a trolley-mounted hoist or other suspended or supported rolling load. Ingersoll Rand trolleys are available in either hook-on or rigid-mount styles.

For maximum convenience and lifting system integrity, we recommend ordering the trolley at the same time as the hoist by using the appropriate model-driver suspension code. Information relating to the various trolleys and MTK Series tractor can be found on the following pages.

Trolley selection guide

0.50 to 20 metric ton lifting capacities

The chart below cross-references all air chain hoist models and sizes with recommended trolleys. Always follow safe installation and operating procedures with any overhead system. Please call an authorized Ingersoll Rand distributor or representative for assistance with application and selection.

Hoist / Trolley Selection Guide

For Use With Hoist Series	Plain Hook-on	Plain Rigid	Geared Hook-on	Geared Rigid	Motorized Rigid
STANDARD TROLLEYS (SUSPENSION CODE)*					
ML250 / 500K / KS	PT005-8	RT010S-P00AN	GT010-8-10	RT010S-G08AN	RT010S-307AN
ML1000K / S	PT010-8	RT010S-P00AM	GT010-8-10	RT010S-G08AM	RT010S-307AM
ML250KR	PT005-8SB	RT010B-P00AN	GT010-8-10SB	RT010S-G08AN	RT010S-307AN
ML500KR	PT005-8SB	RT010B-P00AM	GT010-8-10SB	RT010S-G08AM	RT010S-307AM
HL1000K	PT010-8	TIR6600S-P00AJ	GT010-8-10	TIR6600S-G08AJ	TIR6600S-307AJ
HL1000KR	PT010-8SB	TIR6600B-P00AJ	GT010-8-10SB	TIR6600B-G08AJ	TIR6600B-307AJ
HL1500K	PT020-8	TIR6600S-P00AJ	GT020-8-10	TIR6600S-G08AJ	TIR6600S-307AJ
HL2000K	PT020-8	TIR6600S-P00AK	GT020-8-10	TIR6600S-G08AK	TIR6600S-307AK
HL3000K	PT030-8	TIR6600S-P00AK	GT030-8-10	TIR6600S-G08AK	TIR6600S-307AK
HL4500K	PT050-8	TIR132S-P00AP	GT050-8-10	TIR132S-G08AP	TIR132S-307AP
HL6000K	TIR132S-P00H	TIR132S-P00AP	GT050-8-10	TIR132S-G08AP	TIR132S-307AP
Palair 0.25 and 0.50 ton	PT005-8	RT010S-P00AT	GT010-8-10	RT010S-G08AT	RT010S-307AT
Palair 1 ton	PT010-8	RT010S-P00AT	GT010-8-10	RT010S-G08AT	RT010S-307AT
7700 Series <1 ton	PT005-8	RT010S-P00AR	GT010-8-10	RT010S-G08AR	RT010S-307AR
7700 Series 1 ton	PT010-8	RT010S-P00AR	GT010-8-10	RT010S-G08AR	RT010S-307AR
7790 Series 1 ton	PT010-8	TIR6600S-P00AA	GT010-8-10	TIR6600S-G08AA	TIR6600S-307AA
7792 Series	PT020-8	TIR6600S-P00AA	GT020-8-10	TIR6600S-G08AA	TIR6600S-307AA
7700 Series Spark Resistant	PT005-8SB	RT010B-P00AR	GT010-8-10SB	RT010S-G08AR	RT010S-307AR
7796AL Spark Resistant	PT010-8SB	TIR6600B-P00AA	GT010-8-10SB	TIR6600B-G08AA	TIR6600B-307AA
7798AL / 7799AL Spark Resistant	PT020-8SB	TIR6600B-P00AA	GT020-8-10SB	TIR6600B-G08AA	TIR6600B-307AA
Quantum QCH50-1	PT005-8	N/A	GT010-8-10	N/A	QMT50
Quantum QCH50-2	PT010-8	N/A	GT010-8-10	N/A	QMT50
Quantum QCH100-1	PT010-8	N/A	GT010-8-10	N/A	QMT150
Quantum QCH100-2	PT020-8	N/A	GT020-8-10	N/A	QMT150
Quantum QCH200-2	PT030-8	N/A	GT030-8-10	N/A	QMT300
Quantum QCH300-1	PT020-8	N/A	GT020-8-10	N/A	QMT300
Quantum QCH300-2	PT050-8	N/A	GT050-8-10	N/A	QMT300
Quantum QCH500-2	PT050-8	N/A	GT050-8-10	N/A	QMT300

PT Series



TIR Series



RT Series



GT Series



TIR Series



PT and GT Series trolley

0.50 to 20 metric ton capacities

Features

PT plain and GT hand-gearred hook-on style trolley rated for manual or powered hoists having the versatility to fit most types of beams with compatibility to all hoist brands.

- The 5:1 design factor allows use with both manual or powered hoists. Meets pertinent U.S. (ASME/ANSI and CMAA), Canadian and European standards
- The side plates, including the rail sweeps/drop stops, are made of cold-formed steel for strength, durability, and even load distribution
- The wheels are cast iron and the universal tread fits either flat or tapered beams
- Wheels run on sealed, "Lube-for-Life" ball bearings. Smoother rolling with less effort and maintenance
- Additional gearing in the 20-ton trolley allows operation by one hand chain
- Painted black for coordination with hoists of all colors

Options

- FDA-approved nickel composite plated finish for corrosion resistance — available on PT005 and PT010 only
- Solid bronze alloy wheels for maximum spark resistance
- Wider hanger shaft capabilities allow standard trolleys to fit almost any S-beam or patented track beam, extension shaft kits are stocked



PT010-8



GT020-8-10



GT100-12-10

PT and GT Series Hook-on Trolley Specifications

Model	Capacity		Flange Adjustment in	Min. Beam Height in	Min. Curve Radius in	Weight lb	Kit no. (order separate)	Flange Adjustment in	Weight lb
	lb	metric tons							
STANDARD SERIES									
PT005-8	1,100	0.50	2.6 - 8	4	36	19.7	PT005-WFK	8 - 13	5.5
PT010-8	2,200	1	3 - 8	5	36	30.7	PT010-WFK	8 - 13	9.5
GT010-8-10	2,200	1	3 - 8	5	36	43.7	PT010-WFK	8 - 13	9.5
PT020-8	4,400	2	3.3 - 8	6	48	60.5	PT020-WFK	8 - 13	10
GT020-8-10	4,400	2	3.3 - 8	6	48	73.5	PT020-WFK	8 - 13	10
PT030-8	6,600	3	3.9 - 8	7	42	73.2	PT030-WFK	8 - 13	16.3
GT030-8-10	6,600	3	3.9 - 8	7	42	86.2	PT030-WFK	8 - 13	16.3
PT050-8	11,000	5	4.6 - 8	8	60	110.3	PT050-WFK	8 - 13	24.8
GT050-8-10	11,000	5	4.6 - 8	8	60	123.3	PT050-WFK	8 - 13	24.8
PT100-12	22,000	10	7 - 13	10	83	205	NA	NA	NA
GT100-12-10	22,000	10	7 - 13	10	83	227	NA	NA	NA
GT200-12	44,000	20	7 - 13	12	138	540	NA	NA	NA

► HOW TO ORDER

Example: GT 010-8-SB

GT	010-8	-8	-SB	
Series	Capacity	Hand chain drop	Options	
GT = Hand-gearred hook-on PT = Push hook-on	GT Series 010 = 1 metric ton 020 = 2 metric tons 030 = 3 metric tons 050 = 5 metric tons 100 = 10 metric tons 200 = 20 metric tons	PT Series 005 = 0.5 metric tons 010 = 1 metric ton 020 = 2 metric tons 030 = 3 metric tons 050 = 5 metric tons 100 = 10 metric tons	GT Series only Feet	NC = Nickel-plated trolley (available on PT Series 0.5 and 1 ton models only) SB = Bronze wheels

PT and GT Series trolley

0.50 to 20 metric ton capacities

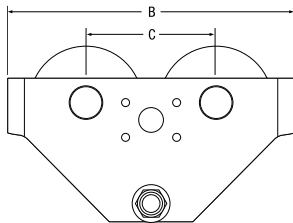
PT and GT Series Hook-on Trolley Dimensions (in)

Model	A	A(-8)	B	C	D	E	F	G	H	J	K	L	M	N	P	P(-8)	R	S	T
STANDARD SERIES																			
PT005-8	2.6	5.9	10	4.5	1	4	1.1	3.5	2.1	0.8	.1	6.6	-	3.9	-	12.3	1.3	1.6	-
PT010-8	2.5	5.9	13	5.2	1.3	4.4	1.6	4.2	2.8	0.8	1	6.9	-	4.3	-	12.9	1.5	1.6	-
GT010-8-10	2.5	5.9	13	5.2	1.3	4.4	1.6	4.2	2.8	0.8	1	6.9	-	4.3	-	12.9	1.5	1.6	7.8
PT020-8	2.6	6.1	14.9	6.8	1.3	5.3	1.3	5.8	4.3	1.1	1.2	7.5	-	4.3	-	13.8	1.5	1.6	-
GT020-8-10	2.6	6.1	14.9	6.8	1.3	5.3	1.3	5.8	4.3	1.1	1.2	7.5	-	4.3	-	13.8	1.5	1.6	7.8
PT030-8	2.6	7.9	14	6.4	1.6	5.5	1.6	5.8	4.5	1.1	1.4	8.6	-	5.4	-	14.1	1.9	2.6	-
GT030-8-10	2.6	7.9	14	6.4	1.6	5.5	1.6	5.8	4.5	1.1	1.4	8.6	-	5.4	-	14.1	1.9	2.6	8.1
PT050-8	2.8	8.1	15.5	7.1	1.6	5.8	2.2	6.2	4.5	1.6	1.4	9.8	-	6.6	-	15.6	2.5	2.6	-
GT050-8-10	2.8	8.1	15.5	7.1	1.6	5.8	2.2	6.2	4.5	1.6	1.4	9.8	-	6.6	-	15.6	2.5	2.6	8.5
PT100-12	11.8	-	17.9	19.3	20.8	5	7.9	2	7.4	5.9	4.2	1.8	3.2	17.1	3.7	-	1	-	-
GT100-12-10	11.8	-	17.9	19.3	20.8	5	7.9	2	7.4	5.9	4.2	1.8	3.2	17.1	3.7	-	1	-	-
GT200-12-10	10.5	-	25.3	24.5	22.5	6.7	11.8	2.6	10.8	7.9	5.9	2.8	4.3	18	4.5	-	4.9	-	-

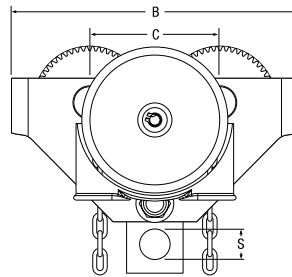
PT Trolley Adapters

Stationary

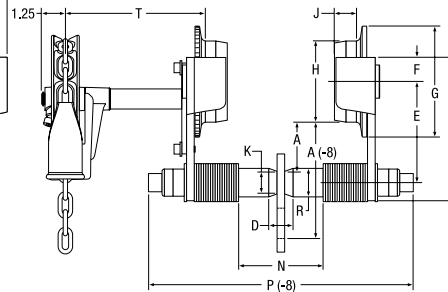
Adapter comes with any 7700 Series hoist ordered as a trolley-suspended model. Adapter can be ordered separately to convert existing hook-suspended 7700 Series hoists for stationary mounting to a PT Series trolley. Order 47717 (shown) for 0.25- and 0.50-ton models; 47716 for 1-ton models. Spacer kits are required. Refer to the price list for details.



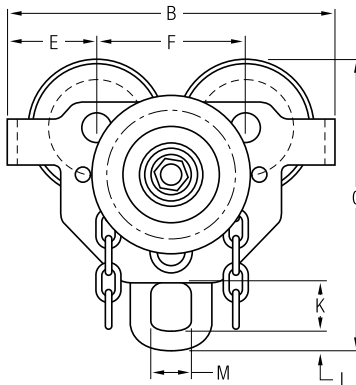
PT010 - PT050
plain trolley/without tag



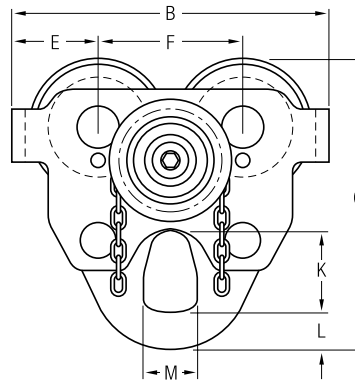
GT010 - GT050
geared trolley



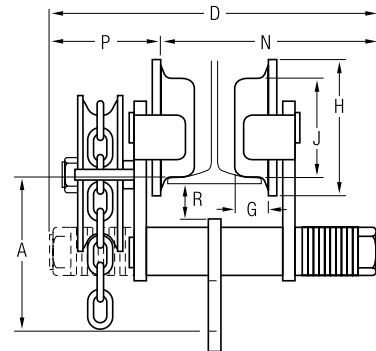
PT010 - PT050 and GT010 - GT050
plain and geared trolley



GT100
geared trolley



GT200
geared trolley



GT100 and GT200
geared trolley

TIR Series

0.25 to 6 metric ton capacities

Features

TIR Series trolleys are supplied as standard equipment for MLK Series, HLK Series, and Palair Series hoists when specified. The TIR trolley may also be used as a hook-on trolley with any hoist.

- Meets ANSI B30.16 for hoisting requirements — 5:1 minimum safety factor
- All-steel construction
- Universal wheels fit both flat and tapered beam flanges
- Rail sweeps are integral with the side plates
- Cast-iron wheels roll easily on permanently greased sealed bearings
- 7' pendent control or 8' hand chain length — other lengths available
- Tight turning radius
- Standard 3-ton trolley fits 3.25" – 6" flange width, 6-ton fits 4.25" – 7.25"
- Modular trolley frame allows hook-on, plain rigid, geared, and motorized configurations in the field
- Motorized trolley has automatic disc brake
- Low air consumption at only 35 scfm on motorized versions

Options

- Solid bronze wheels for maximum spark resistance
- Wide flange kit for 3-ton fits 6" – 12"
- Hook-on adapters
- Lug adapters for rigid-mounting Ingersoll Rand hoist

TIR Series Trolley Specifications

Trolley Type	Capacity		Min. Curve Radius in	Standard Flange Adj. in	Hand Chain/Pendent Drop ft	Trolley Weight lb
	lb	metric tons				
TIR6600 TROLLEY SERIES						
Plain hook-on	550 - 6,600	0.25 - 3	42	3.3 - 6	N/A	31
Plain rigid	550 - 6,600	0.25 - 3	42	3.3 - 6	N/A	34
Geared hook-on	550 - 6,600	0.25 - 3	42	3.3 - 6	7	34
Geared rigid	550 - 6,600	0.25 - 3	42	3.3 - 6	7	37
Motorized	550 - 6,600	0.25 - 3	42	3.3 - 6	7	35
Plain	550 - 6,600	0.25 - 3	42	3.3 - 6	N/A	25
TIR132 TROLLEY SERIES						
Plain hook-on	9,900 - 13,200	4.5 - 6	60	4.3 - 7.3	N/A	154
Plain rigid	9,900 - 13,200	4.5 - 6	60	4.3 - 7.3	N/A	150
Geared hook-on	9,900 - 13,200	4.5 - 6	60	4.3 - 7.3	7	157
Geared rigid	9,900 - 13,200	4.5 - 6	60	4.3 - 7.3	7	153
Motorized	9,900 - 13,200	4.5 - 6	60	4.3 - 7.3	7	155



TIR6600 plain trolley



TIR6600 motorized trolley

TIR Series

0.25 to 6 metric ton capacities

TIR Series Flange and Adapters Kits

Flange Kits	Flange Width (in)	Part Number
Standard	3.3 - 6	49558
Wide	6 - 12	49559

Adapter Kits	Option Code	Part Number
Hook-on	H	TIR-426
90° Trolley Adapter*		43111

*Used to mount any 7790 Series hoist parallel to suspension beam. Adapter increases headroom dimension by 1.625 inches.

Motorized Trolley Specifications

Hoist Capacity lb	Hoist Capacity metric tons	Trolley Speed On Beam*
		fpm
550	0.25	95
1,100	0.50	93
2,200	1	88
3,300	1.50	84
4,400	2	80
6,600	3	71
9,900	4.50	60
12,000	6	45

Note:

*Beam in good condition.

► HOW TO ORDER

Example: TIR6600S-G08DP

TIR	6600	S	-	G	08	D	P
Series	Capacity	Standard or S*COR*E	Type	Chain or pendent length	Flange width (in)	Suspension type	
TIR RT	6600 = 6,600 lb/ 3 ton 132 = Standard 010 = 2,200 lb/ 1 ton	S = Standard cast iron wheels B = Standard bronze wheels for S*COR*E features	P = Plain trolley ⁽¹⁾ G = Hand chain gear driven 0 = Vane motor air driven, no pendent 2 = Vane motor air driven, 1 motor pendent ⁽²⁾ 3 = Vane motor air driven, 2 motor pendent ⁽²⁾ 4 = Vane motor air driven, 3 motor pendent ⁽²⁾	07 = 7 ft (standard for pendent) 08 = 8 ft (standard for hand chain) XX = Specify length in feet 00 = No pendent or hand chain or a plain trolley	A = Fits 3 ton (3.3 - 6) 6 ton (4.3 - 7.3) D = Fits 3 ton (6 - 12) 6 ton (N/A)	P = Plain (without lug) ⁽¹⁾ A = 7790 plain, no adapter E = 7700 0.25-1 ton to TIR6600 adapter J = HLK 1 and 1.5 ton lug adapter ⁽¹⁾ K = HLK 2 and 3 ton lug adapter ⁽¹⁾ H = Hook adapter (3 and ton TIR6600 only) M = MLK to TIR6600 lug adapter (TIR6600 only) R = 7700 0.25-1 ton to RT adapter S = Palair to TIR6600 rigid lug adapter T = Palair to RT rigid lug adapter	

NOTE:

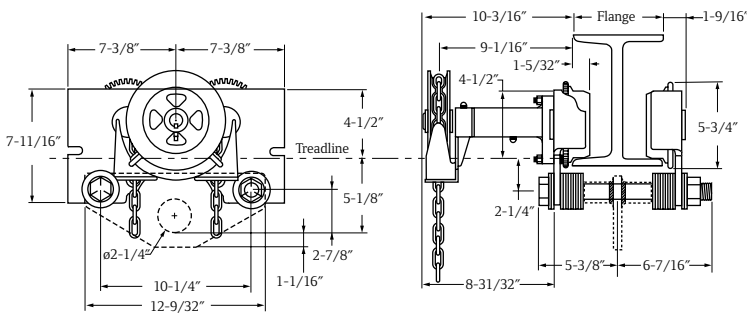
- (1) Required to install TIR6600 trolley on HLK1-3t hoist with top lug manufactured July 1995 or before, or to convert any hook mount to rigid trolley.
- (2) Standard pendants are full flow for the TIR trolley. Pilot and full flow for the second and third function. If control length exceeds 20 ft, quick exhaust valves are required. See table and associated pricing, as with the MTK tractor.

TIR Series

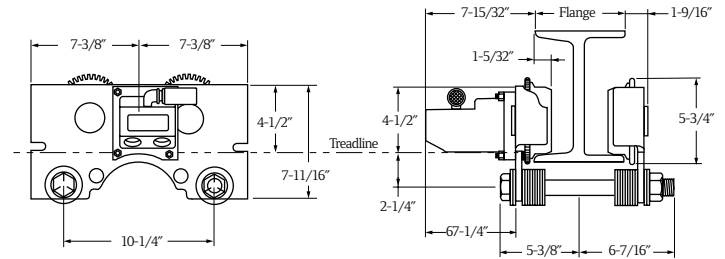
0.25 to 6 metric ton capacities

TIR600, TIR132, and RT010 dimensions

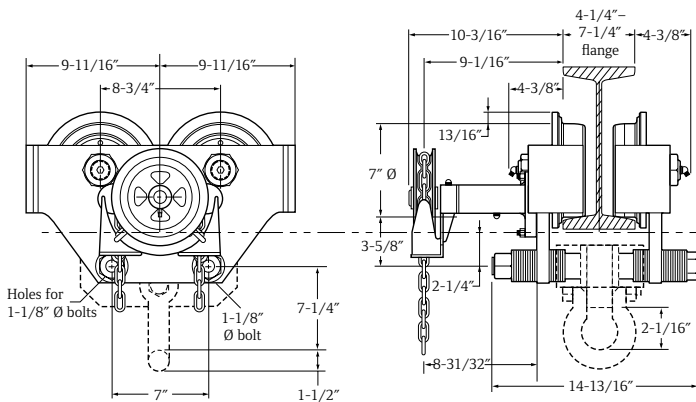
TIR600 plain, geared, and lug-mounted trolley



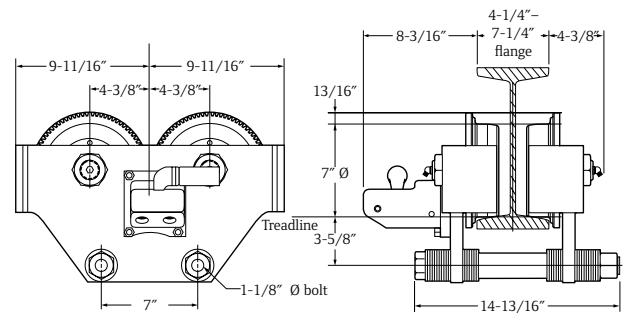
TIR600 motorized trolley



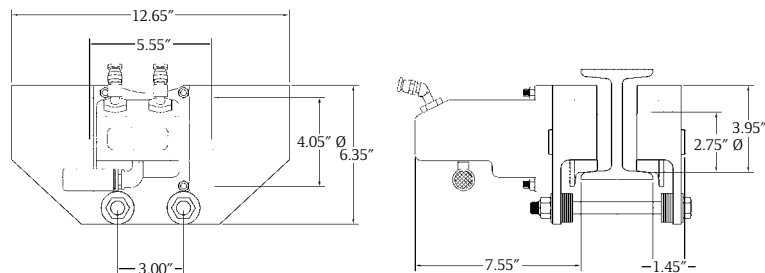
TIR132 plain, geared, and hook-mounted trolley



TIR132 motorized trolley



RT010 motorized trolley



RT Series trolley

1 metric ton capacity

Plain and rigid

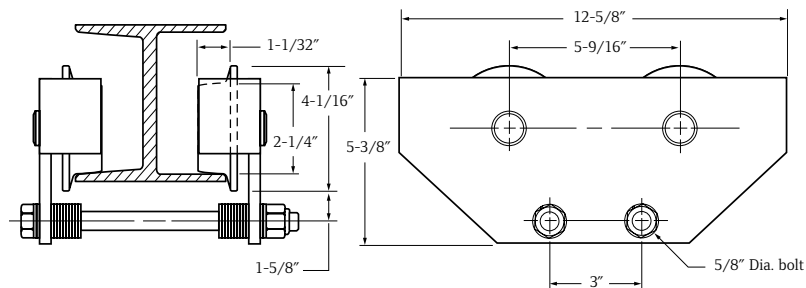
Cousin to the PT Series trolley, the twin suspension shaft RT Series trolley offers a rigid connection for the MLK, MLKS, and MLKR Series of air chain hoists. Like the PT Series, the RT Series uses universal tread wheels for use on flat or tapered flange beams.



RT010 Series Trolley Specifications

Trolley Part Number	Capacity metric tons	Fits Beam Flange Width in	Minimum Turning Radius in
RT010	0.25 - 1	2.7 - 6	36

Wheels have universal tread for use on flat or tapered beams.



BC Series

1 to 10 metric ton capacities

Beam clamp features

Ingersoll Rand beam clamps provide temporary or permanent mounting options for a wide range of tapered or flat beams. These units have been designed and verified — by actual pull testing — to achieve a minimum design factor of 5:1 for vertical lifting with a powered or manual hoist, which meets ASME B30.16.

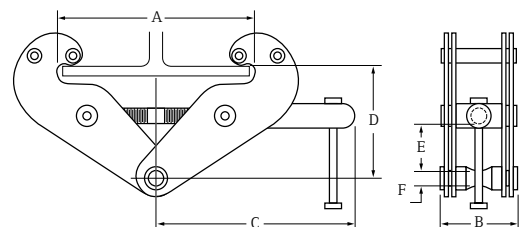
These beam clamps offer quick and simple one-handed installation without requiring any tools. Units accommodate hook-mounted hoist or load blocks with minimal loss of headroom. The clamp jaws are designed to reduce beam stress by applying the load inside of the flange edge.

- Quick installation by hand and with no required tools
- Low headroom design adjusts to fit a wide range of flat or tapered beams
- Meets ASME B30.16 for use with powered or manual hoists
- Each unit is serialized and supplied with a test certificate and manual
- Metric rated for vertical lifting at 2,200 lb per ton



BC Series Beam Clamp Specifications and Dimensions

Model	Weight lb	Capacity metric tons	Beam Width		C in	D in	E in	F in
			A in	B in				
BC-1	9.9	1	3 - 10.2	3.1	9.6	4 - 5.9	1.2	0.9
BC-2	11	2	3 - 10.2	3.5	9.6	4 - 5.9	1.2	0.9
BC-3	23.1	3	3.2 - 14.8	4.7	11.2	6 - 8.9	2	0.9
BC-5	24.2	5	3.2 - 14.8	4.9	11.2	6 - 8.9	1.9	1.1
BC-10	35.2	10	3.5 - 14.4	5.7	11.3	6.9 - 9.3	2.2	1.6



MTK Series

6 metric ton towing capacity

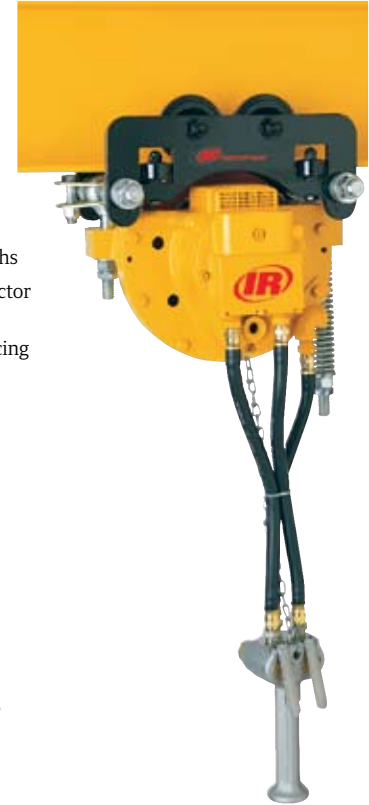
Features

MTK Series tractors require less air, making them less expensive to operate. They're designed for use with any hoist, or even alone to push, pull, or position loads on beams.

- Up to 6 metric ton towing capacity
- Interchangeability with MLK Series and HLK Series parts
- Balanced gear package and air motor provide speeds from slow creep to 165 fpm
- Million-cycle performance tested air motor with spring-loaded vanes provides instant starting and slow speed control
- Heat-treated planetary gearing assures longer life and reduced maintenance
- Self-adjusting, spring-applied, non-asbestos disc brake is air-released for smooth starts and stops
- Drive tire is made from extremely durable polyurethane material with a temperature rating of 185° F for excellent adjustable gripping characteristics
- Tight turning radius of 30"
- Universal solid cast-iron wheels fit both flat and tapered beams
- Wheels can be greased for longer life
- Standard tractor fits 2.7" – 6.3" beam flange widths
- Roller guides made from high alloy steel keep tractor running smoothly
- Tractor operates with a full-flow pendent, enhancing load-spotting control
- Standard 7' pendent length
- Tow bar included with tractor

Options

- Free wheel kit that permits moving of tractor without supplying air; attaches directly to tractor without modification
- Wide flange kit fits 6.27 – 12" beam flange widths
- Pull chain operation
- Bronze wheels for spark-resistant applications
- Gasket repair and manual brake release kits
- Drawbar hitch kit
- External brake release kit relieves auto disc brake without running tractor

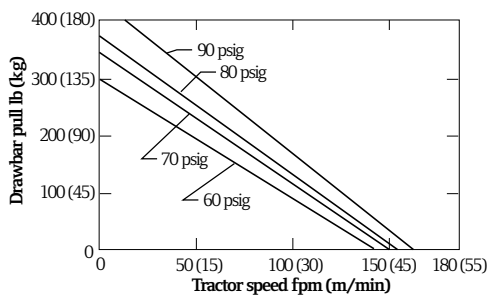


MTK Series Tractor Specifications*

Drawbar Pull lb	Capacity		Max Speed fpm	Pendent Length ft	Turning Radius in	Beam Flange Width	
	Flat, Dry Good metric tons	Curved, Slick, Poor metric tons				Standard in	Optional in
0	0	0	165	7	30	2.7 - 6.3	6.3 - 12
100	1.50	0.75	117	7	30	2.7 - 6.3	6.3 - 12
200	3	1.50	86	7	30	2.7 - 6.3	6.3 - 12
300	4.25	2.25	57	7	30	2.7 - 6.3	6.3 - 12
400	6	3	21	7	30	2.7 - 6.3	6.3 - 12

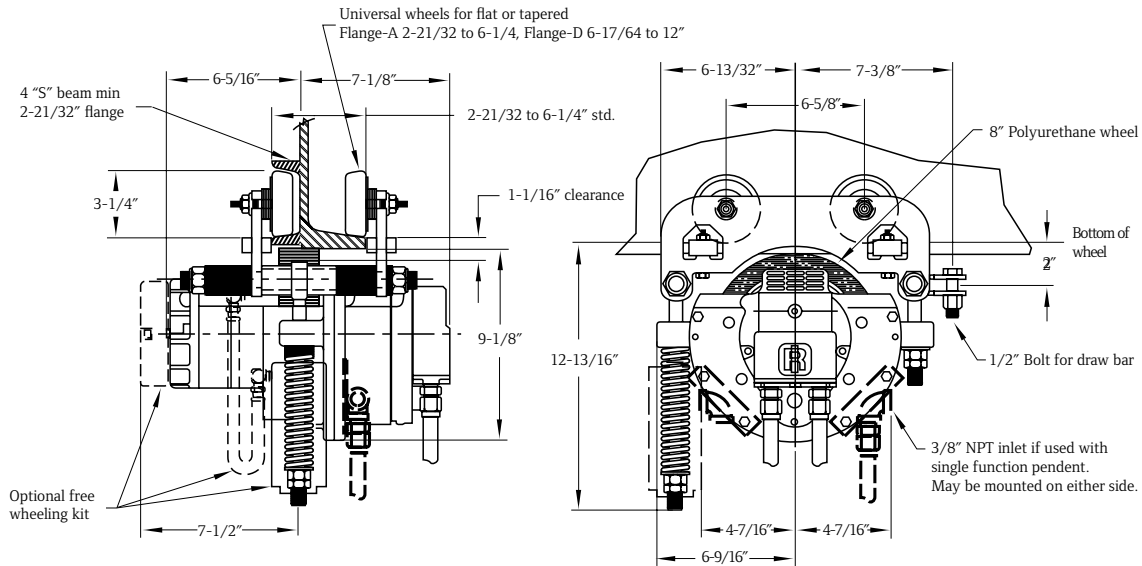
*At 90 psi inlet pressure. Average air consumption is 35 scfm; range is 25 to 45 scfm, depending on load and air pressure.

Draw Bar Load vs. Tractor Speed



MTK Series

6 metric ton towing capacity



► HOW TO ORDER

Specify complete model number as shown. This model code includes: Series, Standard or S*COR*E, type of Trolley, length of chain or pendent drop, flange width, and options. Some accessories may be ordered by specifying them as an option code or by ordering separately by part number. See the Accessories and Options charts above.

Example: MTKS-307AM

MTK	S	3	07	A	M
Series	Standard or S*COR*E	Type of control/trolley	Chain or pendent length	Flange width (in)	Options
MTK	S = Standard cast iron wheels B = Standard bronze wheels for S*COR*E features	0 = No pendent ⁽¹⁾ 1 = Pull chain 2 = Single motor pendent ⁽¹⁾ 3 = Two motor pendent ⁽²⁾ 4 = Three motor pendent	07 = 7 ft (standard) XX = Specify length in feet 00 = No pendent hose or pull chain	A = Fits 2.66 - 6.25 D = Fits 6.26 - 12.00	E = External brake release kit F = Free wheel M = Manual brake release P = Piped away exhaust

(1) Specify when used in combination with hoist on the same order.
Specify multiple pendent control function on the hoist only.

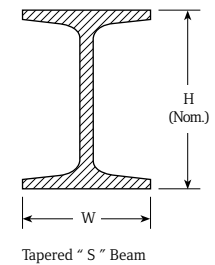
(2) Do not specify if tractor is ordered with a hoist.

I-beam specifications

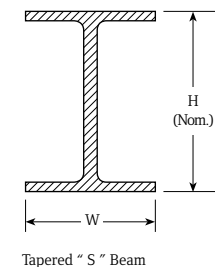
The following table shows the standard size (H), flange widths (W), and weights for both American, Standard I-beams, and Wide Flange H-beams. I-beams designated with an asterisk (*) denote New Series applications which conform to ASTM A6 standards, effective September 1, 1978.

Wide Flange						American Standard					
H in	W in	Weight per ft lb	H in	W in	Weight per ft lb	H in	W in	Weight per ft lb	H in	W in	Weight per ft lb
6	3.94	8.5	10	10.117	66.0	16*	6.985	36	4	2.663	7.7
6*	4.0	9.0	10*	10.130	68.0	16	7.0	40	4	2.796	9.5
6	4.0	12.0	10	10.170	72.0	16*	6.995	40	5	3.004	10.0
6*	4.0	12.0	10	10.190	77.0	16	7.039	45	5	3.284	14.75
6	4.030	16.0	10*	10.190	77.0	16*	7.035	45	6	3.332	12.5
6*	4.030	16.0	10*	10.625	88.0	16	7.073	50	6	3.565	17.25
6*	5.990	15.0	10	10.275	89.0	16*	7.07	50	7	3.662	15.3
6	5.995	15.5	10	10.340	100.0	16*	7.12	57	7	3.860	20.0
6	6.020	20.0	10*	10.340	100.0	16	8.464	58	8	4.001	18.4
6	6.018	20.0	10	10.415	112.0	16*	10.235	67	8	4.171	23.0
6	6.080	25.0	10*	10.415	112.0	16*	10.295	77	10	4.661	25.4
6*	6.080	25.0	12	3.968	14.0	16*	10.365	89	10	4.944	35.0
8	3.940	10.0	12*	3.970	14.0	16*	10.425	100	12	5.0	31.8
8*	3.940	10.0	12*	3.990	16.0	16	11.502	88	12	5.078	35.0
8	4.0	13.0	12	4.0	16.5	16	11.5	96	12	5.252	40.8
8*	4.0	13.0	12	4.005	19.0	18	6.0	35	12	5.477	50.0
8	4.015	15.0	12*	4.007	19.0	18*	6.0	35	15	5.501	42.9
8*	4.015	15.0	12	4.030	22.0	18	6.015	40	15	5.640	50.0
8	5.250	17.0	12*	4.030	22.0	18*	6.015	40	18	6.001	54.7
8*	5.250	18.0	12*	6.490	26.0	18*	6.060	46	18	6.251	70.0
8	5.268	20.0	12	6.497	27.0	18	7.477	45	20	6.25	65.4
8*	5.270	21.0	12*	6.520	30.0	18	7.5	50	20	6.385	75.0
8	6.495	24.0	12	6.525	31.0	18*	7.5	50	20	7.060	86.0
8*	6.5	24.0	12*	6.560	35.0	18	7.532	55	20	7.200	96.0
8	6.535	28.0	12	6.565	36.0	18*	7.530	55	24	7.001	79.9
8*	6.535	28.0	12	8.0	40.0	18	7.558	60	24	7.125	90.0
8	7.995	31.0	12*	8.005	40.0	18*	7.555	60	24	7.245	100.0
8*	7.995	31.0	12	8.042	45.0	18*	7.635	71	24	7.875	105.9
8	8.020	35.0	12*	8.045	45.0	18	8.715	64	24	8.050	121.0
8*	8.020	35.0	12	8.077	50.0	18	8.75	70			
8	8.070	40.0	12*	8.080	50.0	18	8.787	77			
8*	8.070	40.0	12	10.0	53.0	18*	11.035	76			
8	8.110	48.0	12*	9.995	53.0	18*	11.090	86			
8*	8.110	48.0	12	10.014	58.0	18*	11.145	97			
8	8.220	58.0	12*	10.010	58.0	18*	11.200	106			
8*	8.220	58.0	14	5.0	22.0	18*	11.265	119			
8	8.280	67.0	14*	5.0	22.0	18	11.75	96			
8	8.280	67.0	14	5.025	26.0	21	6.5	44			
10	3.950	11.5	14*	5.025	26.0	21*	6.5	44			
10*	3.960	12.0	14	6.730	30.0	21*	6.530	50			
10	4.0	15.0	14*	6.730	30.0	21*	6.555	57			
10*	4.0	15.0	14	6.75	34.0	21	8.215	55			
10	4.010	17.0	14*	6.745	34.0	21	8.240	62			
10*	4.010	17.0	14	6.770	38.0	21*	8.240	62			
10	4.020	19.0	14*	6.770	38.0	21	8.270	68			
10*	4.020	19.0	14	8.0	43.0	21*	8.270	68			
10	5.75	21.0	14*	7.995	43.0	21	8.295	73			
10*	5.75	22.0	14	8.031	48.0	21	8.295	73			
10	5.762	25.0	14*	8.030	48.0	21*	8.355	83			
10*	5.770	26.0	14	8.062	53.0	21*	8.420	93			
10	5.799	29.0	14*	8.060	53.0	21	8.962	82			
10*	5.810	30.0	14	10.0	61.0	24	7.005	55			
10	7.960	33.0	14*	9.995	61.0	24*	7.005	55			
10*	7.960	33.0	14	10.035	68.0	24*	7.040	62			
10	7.985	39.0	14	10.035	68.0	24	8.961	68			
10*	7.985	39.0	14	10.072	74.0	24*	8.965	68			
10	8.020	45.0	14*	10.070	74.0	24	8.965	76			
10*	8.020	45.0	14	12.0	78.0	24*	8.990	76			
10	10.0	49.0	14	14.5	87.0	24	9.015	84			
10*	10.0	49.0	14*	10.130	82.0	24*	9.020	84			
10	10.030	54.0	16	5.5	26.0	24	9.065	94			
10*	10.030	54.0	16	5.525	31.0	24*	9.065	94			
10	10.080	60.0	16*	5.625	31.0	-	-	-			
10*	10.080	60.0	16	6.692	36.0	-	-	-			

American Standard



Wide Flange



Trolleys and Beam Clamps

Lubricants

These approved lubricants are suggested for either routine preventive maintenance procedures or for total hoist overhaul.

Part No.	Amount	Product Description	Where Used
29665	1 qt (0.9 L)	Detergent-free spindle oil with viscosity of 155-165 S.U.S. at 100°F and aniline point of 217°F.	In airline lubricator to provide lubrication to hoist air motor.
33153	5 lb (2.3 kg)	EP (extreme pressure) bearing and gear grease, NLGI No. 1 with viscosity of 750 S.U.S. at 100°F.	Pocket wheel, sheave block
50P	1 pt (0.5 L)	Class II lubricant, #50	Hoist and winches
40164	1 qt (0.9 L)	Gear oil	Hoist gearing
50G	1 gal (3.8 L)	Class II lubricant, #50	Hoist and winches
62 1 Gal	1 gal (3.8 L)	Class II #62 oil	Hoist and winch gear boxes
36460	4 oz (118 ml)	Stringy lubricant for rubber seals Triple protection, USDA approved lubricant Extreme pressure formula and corrosion inhibitors, penetrating oils.	"O" rings Load chain or wherever penetrating lubricating oils are used
Lubri-Link Green	16 oz spray bottle	Stringy lubricant for rubber seals Triple protection, USDA approved lubricant Extreme pressure formula and corrosion inhibitors, penetrating oils.	"O" rings Load chain or wherever penetrating lubricating oils are used
LLG-5	5 gal bulk container	Stringy lubricant for rubber seals Triple protection, USDA approved lubricant Extreme pressure formula and corrosion inhibitors, penetrating oils.	"O" rings Load chain or wherever penetrating lubricating oils are used



29665



33153



40164



36460



Lubri-Link Green

Filters - Regulators - Lubricators

Part No.	Size (in) NPTF	Flow Rate scfm	Adj. Pressure Range psig	Bowl Capacity	Height x Width (in)
TRIO UNITS: FILTERS, REGULATORS, LUBRICATORS					
C38341-810	1/2	150	5-250	4 oz	6 x 8.7
C38451-810	3/4	200	5-250	4 oz	8.6 x 11.1
C38461-810	1	215	5-250	4 oz	8.6 x 11.1
COMPONENTS					
Part No.		FILTER	REGULATOR	LUBRICATOR	
TRIO #					
C38341-810	1/2	F35341-410	R37341-600	L36341-110	
C38451-810	3/4	F35451-410	R37451-600	L36451-110	
C38461-810	1	F35461-410	R37461-600	L36461-110	



C38451-810



C38341-810

Material Handling Solutions

Case study

Ingersoll Rand routinely provides custom solutions for lifting and pulling applications all over the world. Please contact an authorized Ingersoll Rand distributor or representative for assistance with your application's requirements.

Model

HL2000K/04014E

Application

Nuclear weapon handling hoist and motorized trolley system

Solution

Customer required hoists to be built to ASME NUM-1, *Rules for Construction of Cranes, Monorails, and Hoists*, a design standard for hoists and cranes used in nuclear facilities. Hoists are to be used for the assembly and maintenance of nuclear weapons.



Product Specifications

Model	Capacity	Design Factor	Headroom	Lifting and Lowering Speed	Trolley Travel Speed
HL2000K/04014E	2,000 lb (909 kg)	10:1	22 in (558.8 mm) maximum	Not to exceed 10 fpm (3 m/min)	Not to exceed 16 fpm (4.9 m/min)

Options

- Special quick disconnect pendent manifold
- Positive sealed motor and gearbox — zero tolerance for leakage for “clean room” environment
- Pendent designed to survive a 150 psi overpressure condition
- Custom chain container with drain plug
- Unpainted bare steel bottom hook
- Overload limiter on hoist
- Ecology air preparation package for hoist and trolley
- Custom operation and maintenance manuals and special documentation
- Special customer defined NDE, sound, and load testing requirements
- Long-term storage packaging requirements
- Lightning arrest modifications



HLK2000K/04014E

Limited Warranty

Industrial Lifting Equipment Limited Warranty

Ingersoll Rand Company (IR) warrants to the original user its industrial lifting equipment (Hoists) to be free of defects in material and workmanship for a period one year from the date of purchase. Ingersoll Rand will repair, without cost, any Hoist found to be defective, including parts and labor charges, or at its option, will replace such Hoist or refund the purchase price less a reasonable allowance for depreciation, in exchange for the hoist. Repairs or replacements are warranted for the remainder of the original warranty period.

If any Hoist proves defective within its original one year warranty period, it should be returned to an appropriate Ingersoll Rand Service Distributor, transportation prepaid with proof of purchase or warranty card.

This warranty does not apply to Hoist that Ingersoll Rand has determined to have been misused or abused, improperly maintained by the purchaser, or where the malfunction or defect can be attributed to the use of non-genuine Ingersoll Rand parts.

Ingersoll Rand makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set for the above. Ingersoll Rand's maximum liability is limited to the purchase price of the Hoist and in no event shall Ingersoll Rand be liable for any consequential, indirect, or special damages of any nature arising from the sale or use of the Hoist, whether based on contract, tort, or otherwise.

Note: Some states do not allow limitations on incidental or consequential damages so that the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

Product, Parts, Maintenance, Operation, and Safety manuals can be downloaded from irtechpubs.com

Ingersoll Rand extends through offices and distributors in cities around the world.
Contact the nearest Ingersoll Rand office or write to: Ingersoll Rand, P.O. Box 970 Annandale, NJ 08801 USA.

United States regional sales offices

Tech support, order entry and order status: Ingersoll Rand Customer Care

510 Hester Drive, P.O. Box 618, White House, TN 37188
Phone: 866-207-6923
or 800-IR-Hoist
Fax: 615-285-0802

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51 Worcester Road, Toronto, Ontario M9W 4K2
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Fax: 55-11-2109 . 8998

WARNING: This equipment is not designed for transporting people or lifting loads above 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.

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Visit our website, ingersollrandproducts.com.**

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Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

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