

# Trolleys

## Hoist Accessories

### Trolleys

All hoists ordered with a trolley using the model code will mount directly to the trolley supplied. All trolleys can be ordered separately by specifying model required according to hoist and beam configurations. See flange width adjustment chart below for trolley type used and flange width compatibilities. See individual charts for complete model numbers.



SP Series Trolley



PT Series Trolley



TIR Series Trolley

### Flange Width Adjustment Chart

Hoist Base Model	Hoist Capacity (lbs)	Trolley Supplied	Flange Width Min – Max in.			Min. Curve Radius in.
			“A”	“B”	“D”	
<b>Plain Trolley (Suspension Codes DA, DB, DC and DD except 7740B)</b>						
7740B	300	SP Series	Single adjustment of 1.97 – 8.00			36
7712EL	550	PT Series	2.66 – 4.66	2.66 – 8.00	NA	36
7714EL	1500	PT Series	3.00 – 5.25	3.00 – 8.00	NA	36
7796AL, 7798AL, 7799AL	1500, 2400, 3000	TIR Series	3.25 – 6.00	NA	6.01 – 12.00	42
7712ER, 7714ER	400, 800	PT Series	2.66 – 4.66	2.66 – 8.00	NA	36
<b>Hand Chain Geared Trolley (Suspension Codes FXXA AND FXXD)</b>						
All 7700 and 7790 models	All	TIR Series	3.25 – 6.00	NA	6.01 – 12.00	42
<b>Powered Trolley (Suspension Codes HA AND HD)</b>						
All 7700 and 7790 models	All	TIR Series	3.25 – 6.00	NA	6.01 – 12.00	42

### Hoist/Trolley Compatibility Chart for 7700 and 7790 Series Hoists

Hoist Base Model	Plain Hook-On	Plain Rigid	Geared Hook-On	Geared Rigid	Motorized
<b>PT Series Trolley</b>					
Standard, for use with:					
7770E	PT005A	<b>PT005A<sup>(1)</sup></b>	N/A	N/A	N/A
7718E, 7720E	PT005A	<b>PT005A<sup>(1)</sup></b>	N/A	N/A	N/A
7756E, 7708E	PT005A	<b>PT005A<sup>(1)</sup></b>	N/A	N/A	N/A
7776E, 7732E	PT010A	<b>PT010A<sup>(1)</sup></b>	N/A	N/A	N/A
7790A	PT010A	Uses <b>TIR</b>	N/A	N/A	N/A
7792A	PT020A	Uses <b>TIR</b>	N/A	N/A	N/A
Spark Resistant, for use with:					
7712EL, 7712ER	PT005A-SB	<b>PT005A-SB<sup>(1)</sup></b>	N/A	N/A	N/A
7714EL, 7714ER	PT005A-SB	<b>PT005A-SB<sup>(1)</sup></b>	N/A	N/A	N/A
7796AL	PT010A-SB	Uses <b>TIR</b>	N/A	N/A	N/A
7798AL, 7799AL	PT020A-SB	Uses <b>TIR</b>	N/A	N/A	N/A
<b>TIR Series Trolleys</b>					
Standard, for use with:					
7770E	TIR6600S-P00AH	TIR6600S-P00AE	TIR6600S-G08AH	<b>TIR6600S-G08AE</b>	<b>TIR6600S-307AE</b>
7718E, 7720E	TIR6600S-P00AH	TIR6600S-P00AE	TIR6600S-G08AH	<b>TIR6600S-G08AE</b>	<b>TIR6600S-307AE</b>
7756E, 7708E	TIR6600S-P00AH	TIR6600S-P00AE	TIR6600S-G08AH	<b>TIR6600S-G08AE</b>	<b>TIR6600S-307AE</b>
7776E, 7732E	TIR6600S-P00AH	TIR6600S-P00AE	TIR6600S-G08AH	<b>TIR6600S-G08AE</b>	<b>TIR6600S-307AE</b>
7790A	TIR6600S-P00AH	<b>TIR6600S-P00AA</b>	TIR6600S-G08AH	<b>TIR6600S-G08AA</b>	<b>TIR6600S-307AA</b>
7792A	TIR6600S-P00AH	<b>TIR6600S-P00AA</b>	TIR6600S-G08AH	<b>TIR6600S-G08AA</b>	<b>TIR6600S-307AA</b>
Spark Resistant, for use with:					
7712EL, 7712ER	TIR6600B-P00AH	TIR6600B-P00AE	TIR6600B-G08AH	<b>TIR6600B-G08AE</b>	<b>TIR6600S-307AE</b>
7714EL, 7714ER	TIR6600B-P00AH	TIR6600B-P00AE	TIR6600B-G08AH	<b>TIR6600B-G08AE</b>	<b>TIR6600S-307AE</b>
7796EL	TIR6600B-P00AH	<b>TIR6600B-P00AA</b>	TIR6600B-G08AH	<b>TIR6600B-G08AE</b>	<b>TIR6600S-307AA</b>
7798EL	TIR6600B-P00AH	<b>TIR6600B-P00AA</b>	TIR6600B-G08AH	<b>TIR6600B-G08AE</b>	<b>TIR6600S-307AA</b>
7798AL	TIR6600B-P00AH	<b>TIR6600B-P00AA</b>	TIR6600B-G08AH	<b>TIR6600B-G08AA</b>	<b>TIR6600S-307AA</b>

Trolley part numbers in bold indicate the trolley supplied when ordered with an Air Hoist, using the model number suspension codes:

Plain Rigid = DA or DB, DC and DD; Geared Rigid = FXXA or FXXD; Motorized = HA or HD.

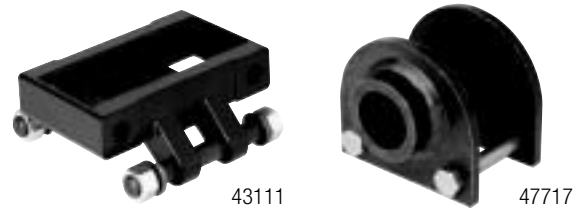
(1) PT Series Trolleys require Trolley Adapter Kits for Plain Rigid Mount, see Trolley Adapters on next page.

# Hoist Accessories

## TIR Flange and Adapters Kits

Flange Kits	Flange Width (in.)	Part No.
Standard	3.25 - 6.00	49558
Wide	6.01 - 12.00	49559
Adapter Kits	Option Code	Part No.
Hook-on	H	TIR-426
90° Trolley Adapter <sup>(1)</sup>		43111

(1) Used to mount any 7790 Series hoist parallel to suspension beam. Increases headroom dimension by 1.625 inches.



## PT Trolley Adapters

### Stationary

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 1/4 and 1/2 ton models, 47716 for 1 ton models. Spacer kits are required, refer to the price list for details.

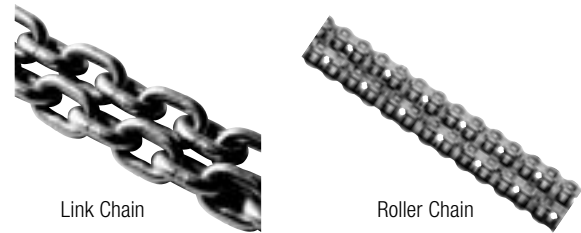


## Load Chain

ARO 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 (1/4, 1/2 ton), 7790 Series (1 ton), 7740B  
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

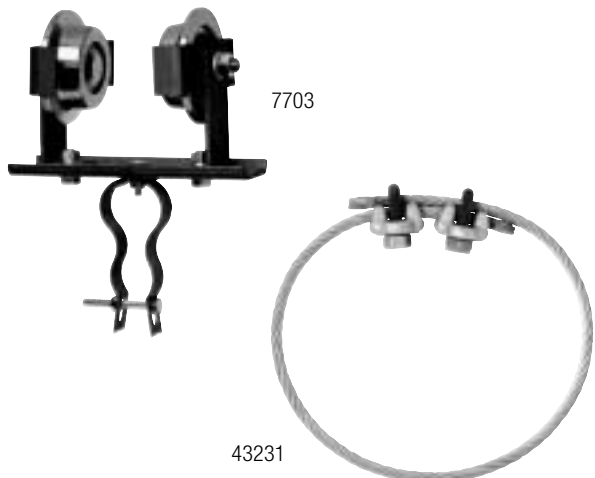


Hoist Used On	Capacity lbs	Chain Part No.	Chain Size Dia./Pitch	Weight lbs/ft	Feet in Package
<b>Zink Plated Link</b>					
7740B Series	300	44523	.157/.471	.25	250
7700 Series	275, 550, 1100, 2200	37708	.250/.750	.58	250
7790 Series	2200 & 4400	42988	.312/.858	.88	250
<b>Steel Roller</b>					
7740B Series	300	44010	.200/.375	.21	320
7700 Series	400, 800	33364	.400/.625	1.30	320
7700 Series	1600	34332	.400 / .625	1.30	320
<b>Stainless Steel Link</b>					
7700 Series	500, 1500	39489	.250/.750	.62	250
7790 Series	1500, 2400, 3000	43095	.312/.858	.94	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 <sup>1</sup> / <sub>4</sub>	3-10	2 <sup>3</sup> / <sub>8</sub> - 5
D10-8888			5 - 8 <sup>3</sup> / <sub>4</sub>



## 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 <sup>1</sup> / <sub>2</sub>

# Hoist Accessories

## 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.

Link Chain  
Metal Basket



Link Chain  
Canvas Basket



Roller Chain  
Metal Basket



Load Chain Max Lineal Feet	Link Chain (Metal Basket)		7740B	Link Chain (Canvas Basket <sup>(1)</sup> )		Roller Chain (Metal Basket)	
	7700	7790		7700	7790	7740B	7700
10	–	49800 – 10	–	–	43441 – 1	–	37654
12	–	–	44120	–	–	44595	–
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	–	–	–	–	–
86	37653 – 100	49800 – 100	–	–	–	–	–

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

## Exhausts

### Piped Exhaust<sup>(1)</sup>

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.

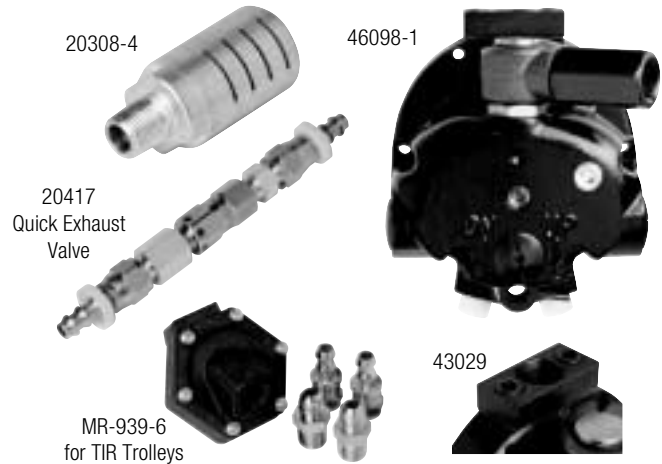
### 20308-4 Exhaust Muffler

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

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

### 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.



MR-939-6  
for TIR Trolleys

## Hoist Controls

To convert from pull chain to pendant 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 pendant length in feet for the \*. Maximum 20 feet.

To convert from pendant 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-*	Pendant – nylon braid hose	6
All 7700E Series	46369-*	Pendant – steel braid hose	6
All 7790 Series	43106-*	Pendant – nylon braid hose	6
All 7790 Series	46364-*	Pendant – steel braid hose	6
All 7700 & 7790 Series	40004-*	Pull Chain	5



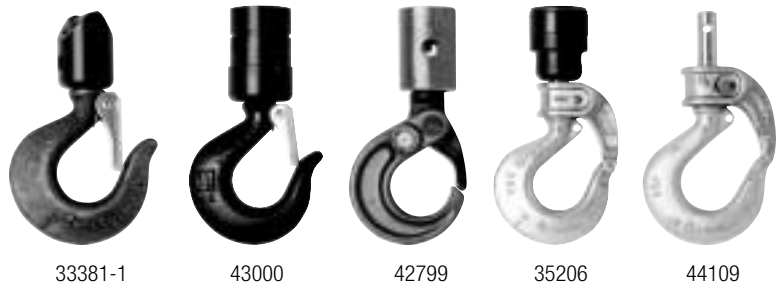
# Hoist Accessories

## Hooks

ARO 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 from 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 (lbs)	Hooks for Link Chain				Hooks for Roller Chain			
		Upper Hook	Hook Opening (in.)	Lower Hook	Hook Opening (in.)	Upper Hook	Hook Opening (in.)	Lower Hook	Hook Opening (in.)
<b>Steel Snap Hooks</b>									
7740B Series	300	44061	29/32	44061	29/32	44061	29/32	44061	29/32
7700 Series 1/8, 1/4 & 1/2 ton	275/550/1100	34921	1 1/8	35014	1	34921	1 1/8	33381-1	1
7700 Series 1/4 ton Spark Res.	500	35113	1 1/8	46565	1	35113	1 1/8	34655-1	1
7700 Series 1 ton	2200	34921	1 1/8	45707 <sup>(1)</sup>	1 1/8	34921	1 1/8	45708 <sup>(1)</sup>	1 1/8
7700 Series 1/2 ton Spark Res.	1000	N/A	–	N/A	–	35113	1 1/8	45710 <sup>(1)</sup>	1 1/8
7700 Series 3/4 ton Spark Res.	1500	35113	1 1/8	45709 <sup>(1)</sup>	1 1/8	N/A	–	N/A	–
7790 Series 1 ton	2200	43002	1 1/8	43000	1 1/8	N/A	–	N/A	–
7790 Series 3/4 ton Spark Res.	1500	43097	1 1/8	43110	1	N/A	–	N/A	–
7790 Series 2 ton	4400	43049	1 1/4	43048 <sup>(1)</sup>	1 1/4	N/A	–	N/A	–
7790 Series 1 ton Spark Res.	2400	43096	1 1/4	43101	1 1/4	N/A	–	N/A	–
7790 Series 1 1/2 ton Spark Res.	3000	43096	1 1/4	43101	1 1/4	N/A	–	N/A	–
<b>Bullard Hooks</b>									
7740B Series	300	44109	1 1/32	44109	1 1/32	44109	1 1/32	44109	1 1/32
7700 Series 1/4 & 1/2 ton	550/1100	35203	1 3/16	35206	1 1/16	35203	1 3/16	35205	1 1/16
7700 Series 1 ton	2200	35203	1 3/16	45934 <sup>(1)</sup>	1 3/16	35203	1 3/16	45935 <sup>(1)</sup>	1 3/16
7790 Series 1 ton	2200	43458	1 3/16	43456	1 3/16	N/A	–	N/A	–
7790 Series 2 ton	4400	43459	1 7/16	43460*	1 7/16	N/A	–	N/A	–
<b>Self-Closing Latch Hooks</b>									
7700 Series 1/8, 1/4 & 1/2 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



EZG-A269

Filter-Lubricator



C21-04-000

Filter-Regulator-Lubricator



C21-04-FGK0-20

# Hoist Accessories

## Maintenance Items

### Service Kits

Each kit contains the necessary replacement parts normally required during a preventative maintenance service procedure. Kits provide an easy method for parts inventory.

Hoist used On	Kit Description	Kit No.
All 7700-E Series	Hoist Motor Only	41329-1
7700E Series – Roller Chain	Sprocket and Guide	41335
7700E Series – Link Chain	Pocket Wheel and Guide	41336
All 7790A Series	Hoist Motor Only	41619-1
7790 Series – Link Chain	Pocket Wheel and Guide	41759



### 33541 Brake Spring Spreader

Designed to aid in the removing of brake spring during maintenance procedure.



## Lubricants

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

Model no.	Amount	Product Description	Where Used
29665	1 qt. (.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, hoist gears, sheave block.
40164	1 qt. (.9 L)	Gear oil	All 7790 Series hoist gearing.
36460	4 oz. (118 ml)	Stringy lubricant for rubber seals.	All "O" rings.
Lubri-Link Green	16 oz. spray bottle	Triple protection, USDA approved lubricant. Extreme pressure formula.	Load chain.
LLG-5	5 gallon bulk container	and corrosion inhibitors, penetrating oils.	Wherever penetrating, lubricating oils are used.



29665



33153



40164



36460



Lubri-Link Green

# Ordering Guide

## Hoists and Trolleys

### How to Order a Hoist

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

Example: **7712EL-3HA20-R16U**

Base Model - Link Chain Models	Control Option	Upper Suspension	Lift (ft)	Lower Hook	Control Length (ft)	Options
<b>Zinc Plated Steel Link Chain</b>	0 = No Controls	A = Lug/Adapter <sup>(1)</sup>	10 = Standard	C = Steel Snap Hook	6 = Standard	P = Piped Away Exhaust Kit <sup>(4)</sup>
7740B = 300 lbs	1 = Pull Chain	C = Steel Snap Hook	XXX = Specify length	G = Self Latching Hook <sup>(1)</sup>	XXX = Specify length	S = Steel Container <sup>(3)(5)</sup>
7770E = 275 lbs	2 = Pendant Control	E = Eye Bolt (7740B only)		K = Bullard Hook, manual closing <sup>(5)</sup>		U = Canvas Basket
7718E = 550 lbs	3 = 2 Motor Pendant <sup>(1)</sup>	DA = Push Trolley A Flg <sup>(1)</sup>		R = Bronze Snap Hook <sup>(1)</sup>		
7756E = 1100 lbs	4 = 3 Motor Pendant <sup>(1)</sup>	DB = Push Trolley B Flg <sup>(1)</sup>				
7776E = 2200 lbs		DD = Push Trolley D Flg <sup>(1)</sup>				
7790A = 2200 lbs		FxxA = Hand Geared Trolley A Flg <sup>(1)</sup>				
7792A = 4400 lbs		FxxD = Hand Geared Trolley D Flg <sup>(1)</sup>				
<b>Spark Resistant Stainless Steel Link Chain</b>		HA = Powered Trolley A Flg <sup>(1)</sup>				
7712EL = 550 lbs		HD = Powered Trolley D Flg <sup>(1)</sup>				
7714EL = 1500 lbs		K = Bullard Hook, manual closing				
7796AL = 1500 lbs		R = Bronze Snap Hook <sup>(1)(2)</sup>				
7798AL = 2400 lbs						
7790AL = 3000 lbs						
<b>Steel Roller Chain</b>						
7720E = 400 lbs						
7708E = 800 lbs						
7732E = 1600 lbs						

Notes:  
 (1) Not available on 7740B  
 (2) Standard on spark resistant models  
 (3) Not available on spark resistant models  
 (4) Not available on 7790 models with powered trolleys  
 (5) Roller chain basket uses same letter code

### How to Order a PT Series Trolley Separately

Specify a complete trolley model by including the A, or -8, beam flange width code desired. Use a dash "-" to separate the desired S•COR•E option and ADD the prices shown to the completed base model.

Example: **PT010A-EN**

Series	Capacity	Flange Width	S•COR•E
PT = Plain Trolley	005 = 1100 lbs 010 = 2200 lbs 020 = 4400 lbs	A = Standard width -8 = First increment oversize Note: See Specifications chart on previous page for actual flange width	EN = Electroless nickel plate on all trolley components (005 and 010 capacities only) EP = Electroless nickel plate wheels and hanger shaft only (005 and 010 capacities only) SB = Solid bronze wheels and electroless nickel plate hanger shaft

### How to Order a TIR Series Trolley Separately

Example: **TIR6600S-307AA**

Series	Capacity	Standard or S•COR•E	Type	Chain or Pendant Length (ft)	Flange Width	Suspension Type
TIR	6600 = 6600 lbs	S = Standard cast iron wheels B = Solid bronze wheels for S•COR•E features	P = Plain trolley G = Hand chain gear driven 0 = Vane motor, air driven, no pendant 2 = Vane motor, air driven, 1 motor pendant 3 = Vane motor, air driven, 2 motor pendant 4 = Vane motor, air driven, 3 motor pendant	07 = 7 ft (standard for pendant) 08 = 8 ft (standard for hand chain) XX = Specify length in feet 00 = No pendant or hand chain	A = Fits 3.25 - 6.00 D = Fits 6.01 - 12.00	A = 7790 suspension (no lug required) E = 7700 rigid lug adapter H = Hook-on adapter