TABLE OF CONTENTS

CURTAIN AND DRAPERY TRACKS 2-73

Curtain Track Selector Guide 2-3
Typical Stage Treatments 4
SILENT STEEL® Model 280 Series 5-16
BESTEEL® Model 170 Series 17-26
PATRIARC® Model 500 Series 27-32

RIG-I-FLEX® Model 140 Series 47-54
FLEX-I-TRAC® Model 132 Series 55-58
TRAK-EZE® Model 220 Series 59-62

SPECIFINE® Model 113 Series 70-73

SPECIAL STAGE AND STUDIO HARDWARE 74-85

Pivot Arms and Switching Devices 74-78
Special Stage and Studio Hardware 79-85
Multiple Line And Single Line Mule Sheaves, Clews 79
Contour Pulleys, Mule Blocks 80
Lift Curtain Pulleys, Trim Chain, Detachable Floor Blocks, Bending Tools 81
Floating Sandbag Tension Pulleys 82
Operating Cords and Cables, Carrier-to-Curtain Fasteners 83
Back-Pack® Guides, Sliding Door Carriers 84
Adjustable Beam Clamps, Center Pipe Supports, Chain, Pipe Battens 85

CURTAIN MACHINES 86-108

Curtain Machine Selection Information and Selector Guide 86-87
Draw Machine Models 2928, 2917, 2914 and 2950 Silver Service Machines 88-89
Draw Machine Models 2960, 2961, 2962 and 2963 Silver Service Machines 90
Draw Machine Models 2904, 6504 91

Draw Machine Models 2905, 6505, 7005 93

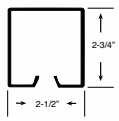
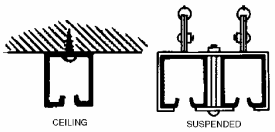
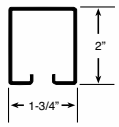
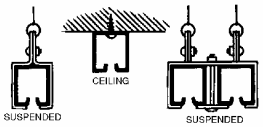
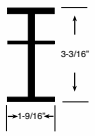
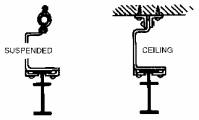
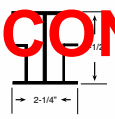
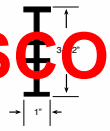
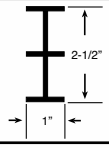
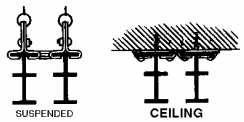
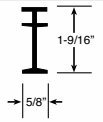
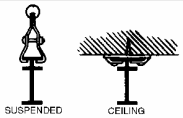
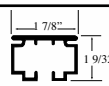
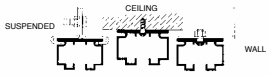
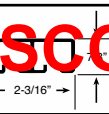
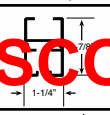
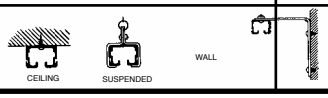
Side Masking Machine Models 940, 1460, 2910 102
Masking Machine Models 936SFR, 963S 103

MISCELLANEOUS MACHINES AND ACCESSORIES 109-112

Key-Operated Switches, Cable Tension Devices, Track-Mounted Limit Switches, Flying Machines 111
Machine Enclosures, Sandbag Tension Pulleys 112

CURTAIN TRACK SELECTOR GUIDE

NOTE: ADC products are not to be used to transport living objects.

	Trade Names and Metal Construction	Cross Section View	Methods of Attachment (Cross Section View)	Approx. Max. Curt. Wght. per foot of Track (lbs.) ****	Maximum Track Length (Bi-parting)	Carrier Spacing	Maximum Span Between Attachments	
							Ceiling Mount	Track Suspension
	SILENT STEEL® Steel or Aluminum Track			20 25 30 50 50 30	60' 60' 80' 80' Any length Any length	12” 12” 12” 12” 12” 12”	18” 18” 18” 18” 18” 18”	7’ 7’ 7’ 7’ 7’ 7’
	BESTEEL® Steel or Aluminum Track			10 13 15 10 10 13 15	40’ 48’ 48’ 40’ Any length Any length Any length	12” 12” 12” 12” 12” 12” 12”	18” *** 18” *** 18” *** 18” *** 18” *** 18” *** 18” ***	6’ 6’ 6’ 6’ 6’ 6’ 6’
Curvable Track Systems	PATRIARC® Aluminum Track (can be curved)			* 30 30	Any length Any length Any length Layout Dependent	12” 12” 12”	5’ 5’ 5’	5’ 5’ 5’
Curvable Track Systems	CURVIT-SURE® Aluminum Track (can be curved)			* * 15 15 15	60’ (No.350) 50’ (No.340) 60’ Any length Any length	12” 12” 12” 12” 12”	5’ 5’ 5’ 5’ 5’	5’ 5’ 5’ 5’ 5’
Curvable Track Systems	TRIPL-I-TRAC® Aluminum Track (can be curved)			* 15 15	60’ 60’ Any length	12” 12” 12”	6’ 6’ 6’	6’ 6’ 6’
Curvable Track Systems	RIG-I-FLEX® Aluminum Track (can be curved)			* 15 15	60’ 60’ Any length	12” 12” 12”	5’ 5’ 5’	4’ 4’ 4’
Curvable Track Systems	FLEX-I-TRAC® Aluminum Track (can be curved)			6.5 13 13	Any length Any length Any length	12” 12” 12”	5’ 5’ 5’	4’ 4’ 4’
Curvable Track Systems	TRAK-EZE® Aluminum Track			13 13	26’ 32’	6” 12”	4’ 4’	4’ 4’
Curvable Track Systems	MOTO-TRAC® Motorized Aluminum Track			Total Curtain Weight 75 lbs. 100 lbs.	20' 24'	6” 12"	12”	4’
Curvable Track Systems	VERS-UTIL® Aluminum Track (can be curved)			4	40’ Layout Dependent	6”	12”	4’
Curvable Track Systems	SPECIFINE® Aluminum Track			4 4 8	40' 20’ 20'	6” 6" 6"	12" 12”*** 12"	4’ 4' 4'

DISCONTINUED

DISCONTINUED

DISCONTINUED

DISCONTINUED

* An accurate figure for the approximate maximum curtain weight per foot of track cannot be established for cord-operated curved tracks due to immeasurability of certain variable factors.
** Data in Tables A and B are based on average track length for individual track models.
*** This figure is based on direct attachment of track channel to ceiling.
**** Based on standard carrier spacing.

Approx. Curt. Stacking Space Per Ft. Track (Total Per Linear Ft. Track) Table A**	Approx. Shipping Wght. Per Ft. Track (lbs.) Table B**	Model No.	Catalog Page No.
2.4”	4	280 (380)	5-16
2.4”	4.5	280-A (380-A)	5-16
2.4”	4.5	281 (381)	5-16
2.4”	4.5	282 (382)	5-16
2.4”	5	283-N (383-N)	5-16
2.4”	5	283-R (383-R)	5-16
2.4”	5	284 (384)	5-16
1.5”	2.5	170, 260 (270)	17-26
2”	2.5	171-R (271-R)	17-26
1.5”	2.5	171-N (271-N)	17-26
1.5”	3	172 (272)	17-26
1.5”	2.5	173 (273)	17-26
1.5”	2.5	173-N (273-N)	17-26
2”	2.5	173-R (273-R)	17-26
2.4”	4.5	500, 500-R	27-32
2.4”	4.5	501, 501-R	27-32
2.4”	4.5	502, 502-R	27-32
1.8”	3	350, 350-R	33-39
1.8”	3	340, 340-R	33-39
1.8”	3	351, 351-R	33-39
1.8”	3	341, 341-R	33-39
1.8”	3	342, 342-R	33-39
1.8”	2	420, 420-R	40-46
1.8”	2	421, 421-R	40-46
1.8”	2	422, 422-R	40-46
1.8”	2	140, 140-R (240, 240-R)	47-54
1.8”	2	141, 141-R (241, 241-R)	47-54
1.8”	2	142, 142-R (242, 242-R)	47-54
1”	1	132, 132-A	55-58
1”	1	132-B	55-58
1”	1	132-C	55-58
3.0”	1	220	59-62
1.5”	1	220 - N	59-62
2.5”	2	160	63-66
1.25”	2	160B	
2.5”	1.5	114	67-69
2.5”	1.5	114B	67-69
2.5”	1	113A	70-73
2.5”	1	113	
2.5”	1	113B	

DISCONTINUED

DISCONTINUED

DISCONTINUED

DISCONTINUED

NOTE: The maximum track length used on “walk-along” tracks depends on the ability of the operator to physically move the curtain to its opened or closed position.

HOW TO ORDER STAGE CURTAIN TRACK:

NOTE: TRACKS SOLD IN EVEN FOOTAGES ONLY. PLEASE ROUND-UP TO THE NEXT EVEN FOOT.

Assume proscenium opening of 20', height from track to floor 12',medium weight curtain. Add 10% for lapping at center area for double-sectioned track. Add 10% for accommodating curtain when stacked at each track end: Total 30%. Order: 1-28' No. 170 track in two 14' sections for hand (or machine) operation 12' high, CWANA.

(NOTE: CWANA means Complete With All Necessary Accessories).

STANDARD ACCESSORIES NORMALLY SUPPLIED WITH CURTAIN TRACK:

An individual stage curtain track is usually sold on a "per foot" basis. A standard accessory group includes track channel, single carriers and master carriers supplied on 12" centers (unless otherwise noted), end pulleys, floor pulley, lap clamps, hanging clamps, end stops and operating cord. Assume a 28' No. 170 track in two 14' sections for hand operation 12' high is ordered. Shipment would include:

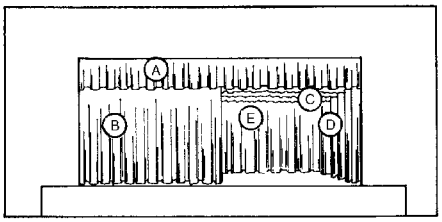
28' No. 1700 Channel (2 x 14’)
26 No. 1701 Single Carriers
2 No. 1702 Master Carriers
1 No. 1703 Live End Pulley
1 No. 1704 Dead End Pulley
1 No. 2865 Tension Floor Pulley
2 No. 1707 Lap Clamps
8 No. 1708 Hanging Clamps (pairs)
2 No. 1709 End Stops
80' No. 1728 Cord

(To calculate approximate amount of cord required, double track length and curtain height and add. When track is operated by drum drive machine, add one-half of track length plus 5 ft. to ordinary cord total.)

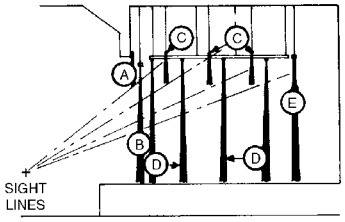
NOTES:

1. All track systems are shipped unassembled.
2. We supply tracks in even lengths only. For example, if a 35’ track in two 17-1/2’ sections is ordered, we will actually ship a 36’ track in two 18’ sections and customer will be invoiced on that basis.
3. Unless instructed otherwise on an order all track systems are assumed to be bi-part operation and will be outfitted as such.
4. Unless advised otherwise, all track systems will be assumed to be suspended installations and will be outfitted as such.

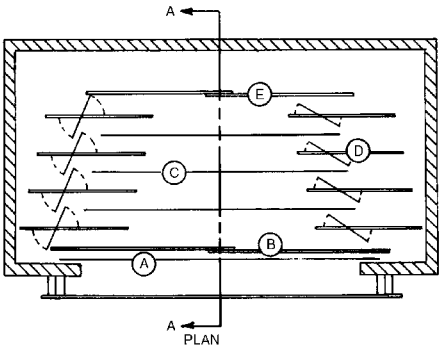
TYPICAL STAGE TREATMENTS



ELEVATION



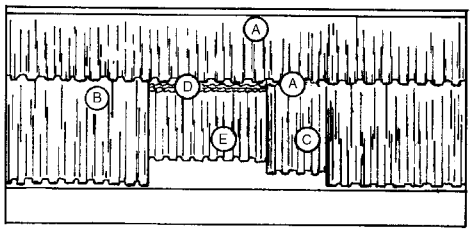
SECTION A-A



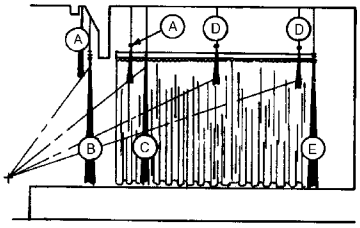
PLAN

LEGEND

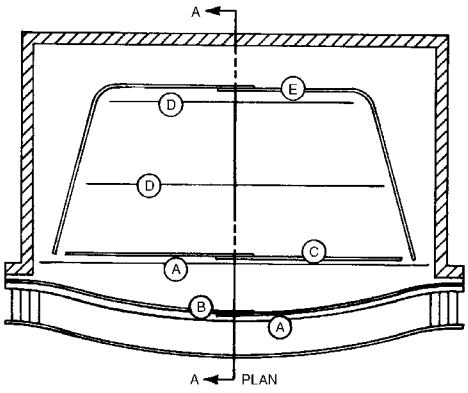
A. Valance (1 1/4" or 1 1/2" pipe)
B. Front Curtain Track (Model 170 for up to 40'; Model 280 for over 40')
C. Ceiling Borders (1 1/4" or 1 1/2" pipe)
D. Side Leg Tracks-with Pivot Arms (Same as B with appropriate Rotodrapers)
E. Rear Curtain Track (Same as B)



ELEVATION



SECTION A-A



PLAN

LEGEND

A. Valance (1 1/4" or 1 1/2" pipe)
B. Front Curtain Track (Model 500)
C. Concert Curtain Track (Model 17 for up to 40'; Model 280 for over 40')
D. Ceiling Borders (1 1/4" or 1 1/2" pipe)
E. Cyclorama Track (Model 142)

BL = Black Finish
3XX Series Track Systems have a black finish.

		280 SILENT STEEL® CWANA code								
		CORD OPERATED/MOTORIZED						WALK-ALONG		
	Parts Included	280 (380)	281 (381)	282 (382)	280-A (380-A)	283-N (383-N)	283-R (383-R)	284 (384)	284-N (384-N)	284-R (384-R)
Single Carriers	2801(BL)	√						√		
	2801-B (BL)				√					
	2849 (BL)		√				√			√
	2851 (BL)			√		√			√	
Master Carriers	2802 (BL)	√			√			√		
	2850 (BL)		√				√			√
	2852 (BL)			√		√			√	
Live-End Pulleys	2803 (BL)	√	√		√					
	2804 (BL)	√	√		√					
	2863 (BL)			√						
Dead-End Pulleys	2864 (BL)			√						
	2863-A					√	√			
	2864-A					√	√			
Floor Pulleys	2865 (BL)	√	√		√					
	2866			√						
	2866-A					√	√			
Cord	2828	√	√	√	√					
	2830					√	√			
Back Pack® Guides	2834 (BL)	√*	√*	√*	√	√*	√*			
	2833 (BL)	√*	√*	√*	√					
	2833-A (BL)					√*	√*			

DISCONTINUED DISCONTINUED

* Back Packs are optional.

SPECIFICATIONS:

SILENT STEEL® Model 280 [380] Curtain Tracks

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2801(BL))** shall be spaced on 12" centers and shall be of nylon construction supported from a ball-bearing by two polyethylene wheels held to ball-bearing by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. Live-End pulley **(Model 2803(BL))** and Dead-End pulleys **(Model 2804(BL))** shall be adjustable and shall be equipped with 3" diameter sleeve-bearing wheels adequately guarded. A rubber bumper shall be attached to each curtain carrier to function as noise reducer. The manufacturer shall furnish two End Stops **(Model 2809(BL))** for placement at each track end and a tension Floor Pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 2828 for hand operation and Model 3529 for machine operation) shall have synthetic or wire center and shall be of 3/8" or 3/16" diameter. If Back Pack® devices are used with this track, **Model 2833** is used for hand operated track systems and **Model 2834** is used for machine operated track systems.
Model 280(380) as manufactured by Automatic Devices Company of Allentown, PA.

SILENT STEEL® Model 281 [381] Curtain Tracks

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2849(BL))** shall be spaced on 12" centers and shall be of steel construction with two neoprene-tired ball-bearing wheels held to steel body by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. Live-End pulleys **(Model 2803(BL))** and Dead-End pulley **(Model 2804(BL))** shall be adjustable and shall be equipped with 3" diameter sleeve-bearing wheels adequately guarded. A rubber washer shall be attached to each curtain carrier to function as noise reducer. The manufacturer shall furnish two End Stops for placement at each track end and a tension Floor Pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 2828 for hand operation and Model 3529 for machine operation) shall have synthetic or wire center and shall be of 3/8" or 3/16" diameter. If Back Pack® devices are used with this track, **Model 2833** is used for hand operated track systems and **Model 2834** is used for machine operated track systems.
Model 281(381) as manufactured by Automatic Devices Company of Allentown, PA.

SILENT STEEL® Model 282 [382] Curtain Tracks

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2851(BL))** shall be spaced on 12" centers and shall be of steel construction with two nylon-tired ball-bearing wheels held to steel body by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. Live-End pulley **(Model 2863(BL))** and Dead-End pulleys **(Model 2864(BL))** shall be adjustable and shall be equipped with 5" diameter sleeve-bearing wheels adequately guarded. A rubber bumper shall be attached to each curtain carrier to function as noise reducer. The manufacturer shall furnish two End Stops for placement at each track end and a tension Floor Pulley **(Model 2866)** for increasing cord tension. Stretch-resistant operating cord (Model 2828 for hand operation and Model 3529 for machine operation) shall have synthetic or wire center and shall be of 3/8" or 3/16" diameter. If Back Pack® devices are used with this track, **Model 2833** is used for hand operated track systems and **Model 2834(BL)** is used for machine operated track systems.
Model 282(382) as manufactured by Automatic Devices Company of Allentown, PA.

SILENT STEEL® Model 280-A [380-A] Curtain Tracks

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2801-B(BL))** shall be spaced on 12" centers and shall be steel construction with two polyethylene wheels held to the steel body by a rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. Live-End pulley **(Model 2803(BL))** and Dead-End pulleys **(Model 2804(BL))** shall be adjustable and shall be equipped with 3" diameter sleeve-bearing wheels adequately guarded. A rubber bumper shall be attached to each curtain carrier to function as noise reducer. The manufacturer shall furnish two End Stops **(Model 2809(BL))** for placement at each track end and a tension Floor Pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 2828 for hand operation and Model 3529 for machine operation) shall have synthetic or wire center and shall be of 3/8" or 3/16" diameter. If Back Pack® devices are used with this track, **Model 2833(BL)** is used for hand operated track systems and **Model 2834(BL)** is used for machine operated track systems.
Model 280-A(380-A) as manufactured by Automatic Devices Company of Allentown, PA.

DISCONTINUED

SPECIFICATIONS:

SILENT STEEL® Model 283-N (383-N) Curtain Tracks

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2851(BL))** shall be spaced on 12" centers and shall be of steel construction with two nylon-tired ball-bearing wheels held to steel body by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. Live-End pulley **(Model 2863-A(BL))** and Dead-End pulleys **(Model 2864-A(BL))** shall be adjustable and shall be equipped with 8" diameter ball-bearing wheels adequately guarded. A rubber washer shall be attached to each curtain carrier to function as noise reducer. The manufacturer shall furnish two End Stops **(Model 2809(BL))** for placement at each track end and a tension Floor Pulley **(Model 2866-A(BL))** for increasing and decreasing cord tension. Stretch-resistant operating cord (Model 2830 for hand operation and Model 3529 for machine operation) shall have synthetic or wire center and shall be of 1/2", or 3/16" diameter. If Back Pack® devices are used with this track, **Model 2833-A(BL)** is used for hand operated track systems and **Model 2834(BL)** is used for machine operated track systems.
Model 283-N (383-N) as manufactured by Automatic Devices Company of Allentown, PA.

SILENT STEEL® Model 283-R (383-R) Curtain Tracks

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2849(BL))** shall be spaced on 12" centers and shall be of steel construction with two neoprene-tired ball-bearing wheels held to steel body by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. Live-End pulley **(Model 2863-A(BL))** and Dead-End pulleys **(Model 2864-A(BL))** shall be adjustable and shall be equipped with 8" diameter ball-bearing wheels adequately guarded. A rubber washer shall be used between each curtain carrier to function as noise reducer. The manufacturer shall furnish two End Stops **(Model 2809(BL))** for placement at each track end and a tension Floor Pulley **(Model 2866-A(BL))** for increasing and decreasing cord tension. Stretch-resistant operating cord (Model 2830 for hand operation and Model 3529 for machine operation) shall have synthetic or wire center and shall be of 1/2", or 3/16" diameter. If Back Pack® devices are used with this track, **Model 2833-A(BL)** is used for hand operated track systems and **Model 2834(BL)** is used for machine operated track systems.
Model 283-R (383-R) as manufactured by Automatic Devices Company of Allentown, PA.

SILENT STEEL® Model 284 (384) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2801(BL))** shall be spaced on 12" centers and shall be of nylon construction supported from a ball-bearing by two polyethylene wheels held to ball-bearing by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. A rubber washer shall be attached to each curtain carrier to function as noise reducer. The manufacturer shall furnish four End Stops **(Model 2809(BL))** for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware.
Model 284 (384) as manufactured by Automatic Devices Company of Allentown, PA.

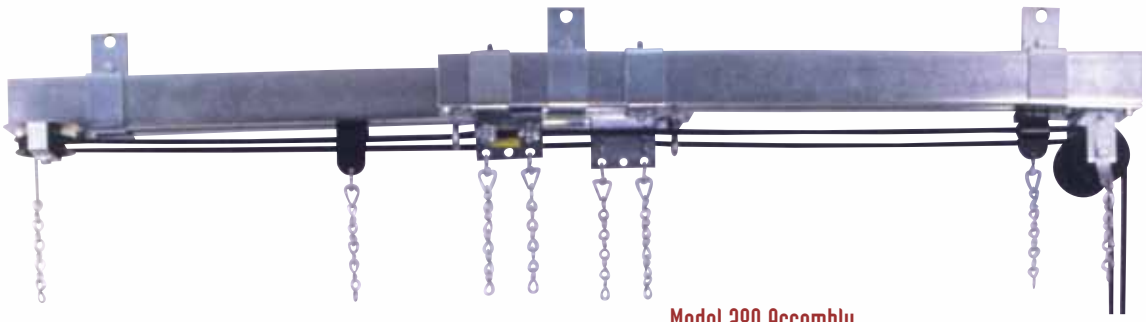
SILENT STEEL® Model 284-N (384-N) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2851(BL))** shall be spaced on 12" centers and shall be of steel construction supported from a ball-bearing by two nylon-tired ball-bearing wheels held to carrier body by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. The manufacturer shall furnish four End Stops **(Model 2809(BL))** for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware.
Model 284-N (384-N) as manufactured by Automatic Devices Company of Allentown, PA.

SILENT STEEL® Model 284-R (384-R) Curtain Tracks (Walk-Along Track System)

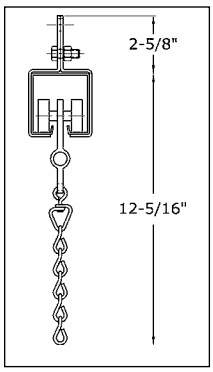
Curtain tracks Model 2800 (2800A) shall be of 14 gauge galvanized steel construction (2800A - 12 Gauge aluminum), entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2849(BL))** shall be spaced on 12" centers and shall be of steel construction supported from a ball-bearing by two neoprene-tired ball-bearing wheels held to carrier body by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. The manufacturer shall furnish four End Stops **(Model 2809(BL))** for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware.
Model 284-R (384-R) as manufactured by Automatic Devices Company of Allentown, PA.

SILENT STEEL® 280 SERIES CURTAIN TRACKS

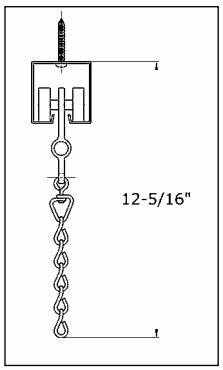


Model 280 Assembly

Cross Section of 280 Suspended

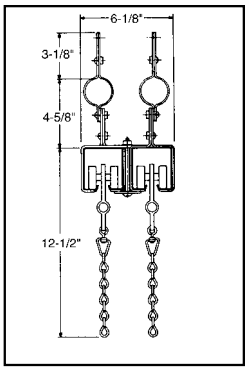


Cross Section of 280 Ceiling Mount



Cross Section of 280 Track at Center Overlap Pipe Mounted

Min. pocket width: 7 in.



SILENT STEEL® MODEL 280 [380]

SILENT STEEL is the most famous name in heavy duty stage tracks. Model 280 steel (380 steel (aluminum available)) is used in the majority of stage installations with heavy weight curtains of almost any length and is particularly quiet in operation. Models 281(381) and 282(382) can be used for heavier curtains. They are essentially identical to Model 280(380) except Model 281(381) is equipped with neoprene-tired ball-bearing carriers and Model 282(382) is supplied with nylon tired ball-bearing carriers. Both systems are equipped with larger diameter floor and end pulleys.

MODEL 281 [381]

Model 281(381) features quiet and smooth operating No. 2849(BL) Neoprene Ball-Bearing Single Carriers and No. 2850(BL) Neoprene Ball-Bearing Master Carriers. No.2827 Rubber Spacers are used to reduce noise even further. With Model 281(381) Back Pack® tracks No. 2826 and No. 2827 Rubber Spacers are used.

MODEL 282 [382]

Model 282(382) features No. 2851(BL) Nylon Ball-Bearing Single Carriers and No. 2852(BL) Nylon Ball-Bearing Master Carriers. No. 2827 Rubber Spacer is used in place of No. 2825. No. 2863(BL) 5" Live End Pulley, No. 2864(BL) 5" Dead End Pulley and No. 2866(BL) 5" Adjustable Floor Pulley help in easing the operation of heavy curtains. With Model 282(382) Back Pack® tracks No.2826 and No. 2827 Rubber Spacers are used.

280(380) Series tracks cannot be curved.

MODEL 280-A [380-A]

DISCONTINUED

Model 280-A(380-A) is identical to Model 280(380) except No. 2801-B(BL) Single Carriers (with plated steel block) are used instead of the nylon blocked No. 2801(BL).

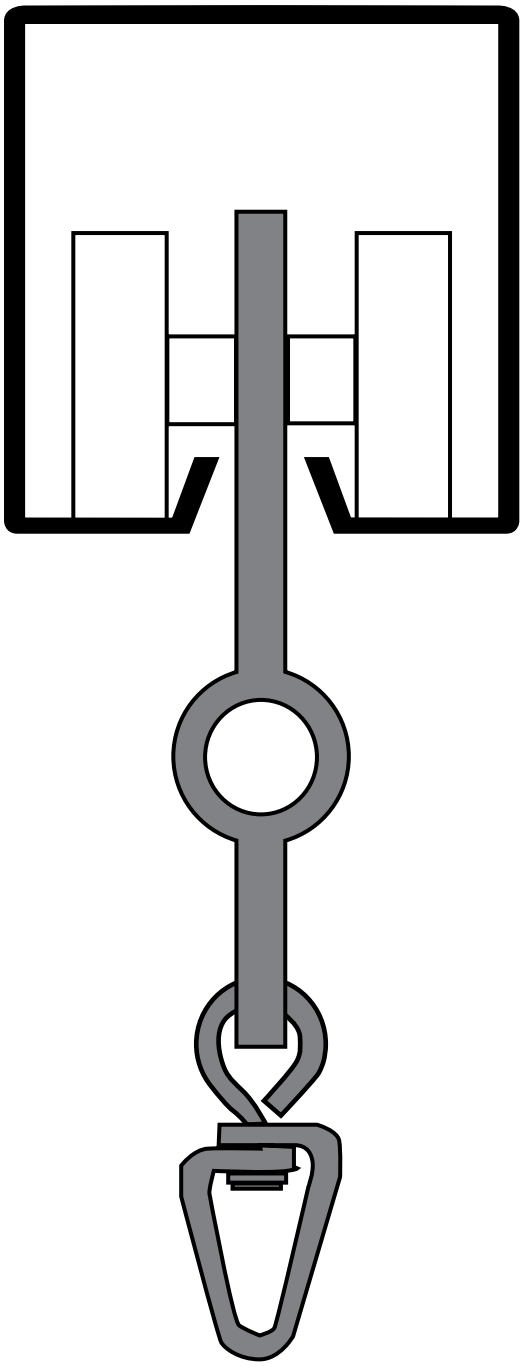
MODELS 283-N [383-N] and 283-R [383-R]

Model 283-N(383-N) and Model 283-R(383-R) employ No. 2863-A(BL) 8" Live End Pulleys, No. 2864-A(BL) 8" Dead End Pulleys and No. 2866-A 8" Adjustable Floor Pulleys which combined with the No. 2830 1/2" Sash Cord reduce operating effort on systems with heavy curtains. The difference between Model 283-N(383-N) and 283-R(383-R) is as follows: Model 283-N(383-N) uses No. 2851(BL) Nylon Ball-Bearing Single Carriers and No. 2852(BL) Nylon Ball-Bearing Master Carriers while Model 283-R(383-R) uses No. 2849(BL) Neoprene Ball-Bearing Single Carriers and No. 2850(BL) Neoprene Ball-Bearing Master Carriers. Not recommended for light duty applications.

Model 284 [384], 284-N [284-N], and 284-R [284-R]

Model 284(384), 284-N(384-N), and 284-R(284-R) are for walk-along operation only and are provided with no pulleys or operating cord. The difference between Model 284-N(384-N) and 284-R(384-R) is as follows: Model 284(384) employs 2801(BL) single and 2802(BL) master carriers. Model 284-N(384-N): No. 2851(BL) Nylon Ball-Bearing Single Carriers and No. 2852(BL) Nylon Ball-Bearing Master Carriers are used. Model 284-R(384-R): No. 2849(BL) Neoprene Ball-Bearing Single Carriers and No. 2850(BL) Neoprene Ball-Bearing Master Carriers are used. Not recommended for light duty applications.

NOTE: Component parts also available in black. Designated by [BL] after part number.



Full Size End View
(NOTE: TRIM CHAIN NOT SHOWN)

No. 2800 Channel [2800 BL]

1' - 2 lbs. 12 oz.

No. 2800-ABL Channel

1' - 15 oz.
14 gauge galvanized steel. 2800 BL powder coated black finish. (No. 2800-ABL supplied in 12 gauge aluminum with a black finish) Obtainable in unspliced lengths up to 26'. Holes can be drilled for direct ceiling attachment. Approximately: 2-5/8" wide x 2-3/4" high.

No. 2801 [BL] Single Carrier

1 - 3-1/4 oz.
Carrier spacing: 12". Block constructed of nylon material supported from ball-bearing with 2 heavy duty polyethylene wheels. Plated swivel for free, effortless curtain movement. Trim chain supplied for curtain trimming. Combined carrier and bumper width: Approximately 2". Length from bottom of track to bottom of 5 chain links: Approximately 9-1/4” from bottom of track to bottom of trim chain.

No. 2801-A (BL) Single Carrier

1 - 7 1/4 oz.
Carrier spacing: 12". Block constructed of plated steel supported from ball-bearing with 2 heavy duty polyethylene wheels. Plated swivel for free, effortless curtain movement. Trim chain supplied for curtain trimming. Gate precludes need for removing and rethreading operating cord. Combined carrier and bumper width: Approximately 2". Length from bottom of track to bottom of 5 chain links: Approximately 9-1/4" from bottom of track to bottom of trim chain.

DISCONTINUED

No. 2801-B (BL) Single Carrier

1 - 6.4 oz.
Carrier spacing: 12". Block constructed of plated steel supported from ball-bearing with 2 heavy duty polyethylene wheels. Plated swivel for free, effortless curtain movement. Trim chain supplied for curtain trimming. Combined carrier and bumper width: Approximately 2". Length from bottom of track to bottom of 5 chain links: Approximately 9-1/4" high from bottom of track to bottom of trim chain.

DISCONTINUED

No. 2802 (BL) Master Carrier

1 - 9 oz.
Block constructed of plated steel supported from 2 ball-bearings with 4 heavy duty polyethylene wheels and 2 cable clips which clamp cord to carrier.
Carrier width: Approximately 3-1/2". Length from bottom of track to bottom of 5 chain links: Approximately 9-1/4" high from bottom of track to bottom of trim chain.

No. 2802B Master Carrier with brake

1 - 1 lb. 12 oz.
One foot in length and features nylon-tired, ball-bearing wheels. The spring-loaded brake is released by pulling down on an operating line when positioning the carrier. For walk-draw applications only.

No. 2802B4 Master Carrier with brake

1 - 2 lbs. 3 oz.
This custom unit is similar to the 2802B but is 4 feet in length and features nylon-tired, ball-bearing wheels. The spring-loaded brake is released by pulling down on an operating line when positioning the carrier. For walk-draw applications only.

No. 2849 (BL) Neoprene Ball-Bearing Single Carrier

1 - 12 oz.
Block constructed of plated steel supported from 2 sealed and greased neo-prene-tired ball-bearing wheels. Provides quieter operation. No. 2827 Rubber Spacer must be inserted between each carrier. Used with Model 281 & 283-R.
Approximately: 9-1/4" from bottom of track to bottom of trim chain.

No. 2850 (BL) Neoprene Ball-Bearing Master Carrier

1 - 1 lb. 12 oz.
Block constructed of plated steel supported from 4 sealed and greased neo-prene-tired ball-bearing wheels. Used with Model 281 & 283-R.
Approximately: 9-1/4" high from bottom of track to bottom of trim chain.

No. 2851 (BL) Nylon Ball-Bearing Single Carrier

1 - 9 oz.
Block constructed of plated steel supported from 2 nylon-tired ball-bearing wheels. Provides longer service life and easier operation. Used with Model 282 & 283-N.
Approximately: 9-1/4" high from bottom of track to bottom of trim chain.

No. 2852 (BL) Nylon Ball-Bearing Master Carrier

1 - 1 lb. 8 oz.
Block constructed of plated steel supported from 4 sealed and greased nylon-tired ball-bearing wheels. Used with Model 282 & 283-N.
Approximately: 9-1/4" high from bottom of track to bottom of trim chain.

No. 2839 Overlapping Master Carrier

1 – 2 lbs. 13 oz.
Used with single section tracks to create a fixed 12" center overlap. Approximately: 15-1/2" long x 2" wide x 9-1/4" high from bottom of track to bottom of trim chain.

No. 2840 Masking/Panel Master Carrier

1 – 2 lbs. 9 oz.
For moving panels or side masking curtains. Steel plate is attached to masking or panel frame. Constructed of painted steel and equipped with 4 nylon-tired ball-bearing wheels and 2 cord/cable connectors (Model C098) to clamp.
Carrier width: Approximately 4"

No. 2861 Door Carrier

1 – 28 oz.
Constructed of 4 nylon-tired ball-bearing wheels mounted to plated steel body. Adjustable design permits leveling of door height without removing door from carrier. Rated for 100 pound load on properly supported track. Approximately 4" long x 1-3/4" wide x 6-3/8" high (to base of plate).

No. 2861A Basic Scenery Carrier

1-16 oz.
Rated for 150 pound load on properly supported track. Approximately 4-1/2" long x 3-1/4" high, 3/8" thread

No. 2848 Space Saver

1 - 1 oz.
For reducing curtain stacking area. Used in place of carrier. Recommended spacing: no more than 1 between two carriers at end pulley area only. 3/16" thickness. Not used with Model 283-N and Model 283-R manually operated tracks. Total quantity should not exceed 10% of curtain width. (Example: 40' curtain would use 2 per side).

No. 2833(BL) Back Pack Guide® (Optional)

1 - 1 oz.
Provides sliding door effect. Prevents curtain from accumulating until track ends are reached. Thickness 1/8"

No. 2834 (BL) Back Pack Guide® (Optional)

1 – 1 oz.
For machine operated tracks. Prevents curtain from accumulating until track ends are reached. Thickness 1/8"

No. 2833-A(BL) Back Pack Guide® (Optional)

Used with Model 283-N and Model 283-R manually operated tracks. Sized for No. 2830 Cord. Thickness 1/8"

No. 2803 (BL) Live End Pulley

1 - 2 lbs. 5 oz.
Equipped with 2 oil-impregnated sleeve-bearing nylon wheels. Steel block anchorable to any position under track without drilling.
Pulley width: Approximately 4".

No. 2804 (BL) Dead End Pulley

1 - 1 lb. 8 oz.
Equipped with 1 oil-impregnated sleeve-bearing nylon wheel. Same type adjustment block as Live End.
Pulley width: Approximately 4".

No. 2803-F Flying Live End Pulley

1 – 4 lbs. 13 oz.
Used with flying type curtain machines to route the cable 180 degrees, back over the track to the track-mounted machine. Extends beyond track approximately 4".

2803H Horizontal Live End Pulley

1 - 3 lbs 12 oz.
Used in place of the standard Model 2803 Live End Pulley. The pulley routes the operating lines horizontally and at a 90 degree angle relative to the track. A mule sheave (Model MB-2) can be used at the back wall to route the cables to a floor mounted machine or tension pulley.
Dimensions: 7-1/4"L x 4" W

No. 2803-B Center Take Off Pulley

1 – 5 lbs. 12 oz.
Used to route the operating cables perpendicular to the track. Must be located a minimum of 4' from the end of the track. Add 1 each 2804 Dead End Pulley to system when this device is used. Extends 5" from side of track.
NOTE: Additional pulleys may be required to mule operating lines to machine or floor pulley.

No. 2863 (BL) 5" Live End Pulley

1 - 4 lbs.
Painted steel construction equipped with two 5" diameter glass filled nylon ball-bearing wheels. Used with Model 282. Pulley width: 5-1/2".

No. 2864 (BL) 5" Dead End Pulley

1 - 4 lbs. 12 oz.
Painted steel construction equipped with one 5" diameter glass filled nylon ball-bearing wheel. Used with Model 282. Pulley width: 10".

No. 2863-A 8" Live End Pulley

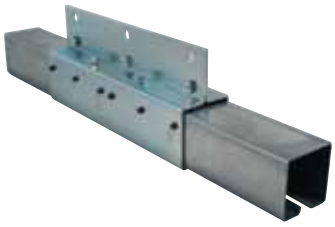
1 - 6 lbs.
Painted steel construction equipped with two ball-bearing equipped 8" diameter nylon wheels. Used with Model 283-N and Model 283-R. Pulley width: 7".

No.2864-A 8" Dead End Pulley

1-5 lbs.
Painted steel construction with single 8" diameter ball-bearing equipped nylon wheel. Used with Model 283-N and Model 283-R. Pulley width: 10".

No. 2864A45 Dead End Pulley 45 Degree Angle

1-6 lbs.
Used when track systems need to fit in narrow ceiling pockets or when 2 track systems need to be placed closely side by side. Used with Model 2863A Live End Pulley. Painted steel construction with single 8" diameter ball-bearing nylon wheel. Can be used with any Model 280 track system.
10"W x 11"L



No. 2824 (BL) Suspended Splicing Clamp

1 pr. - 6 lbs. 6 oz.
Two piece 11 gauge steel clamp for joining track sections assuring proper alignment of track channels. Approximately 12” long x 2-3/4” wide x 5-1/2” high.
NOTE: For suspended tracks only.

No. 2824-A (BL) Ceiling Splicing Clamp

1 pr. – 2 lbs. 14 oz.
Two piece 11 gauge steel clamp for joining track sections assuring proper alignment of track channels.
Approximately: 12” long x 7/8” wide x 2-13/16” high.
NOTE: For ceiling mounted tracks only.

No. 280810 Hanging Clamp with Cord Support

Idler pulley device. Used to support and help prevent the cord or cable from sagging below the track sightline. Suggested spacing 6’. Pulley width approximately 4”. Available for bi-part and one-way applications.

No. 2808 (BL) Hanging Clamp

1 pr. - 16 oz.
Recommended spacing: 7 ft. Steel, chain or cable suggested for track suspension. Adjustable to any location on the track. Pipe battens recommended for long and heavy curtain installations.

No. 2809 (BL) End Stop

1 - 6.4 oz.
Prevents carriers from moving beyond selected position in track.

Cannot be used with Rotodrapers®. Correct hardware supplied with Rotodrapers®.

No. 2807 (BL) Lap Clamp

1 - 1 lb. 8 oz.
For securing bi-parting tracks at the center overlap.
NOTE: For use with suspended track systems only.
Sold individually.

No. CPS-1 Center Pipe Support

1 pr - 15.2 oz.
To facilitate the clamping of steel track channel to a single pipe batten. The Center Pipe Support is placed at the overlap and the two lap clamps are used in the normal manner.
(Lap and pipe clamps sold separately.)

No. 2821 Pocket Mounting Bracket for Model 2800 Track

1 - 1 lb.
Steel offset bracket for mounting Model 2800 track to side of ceiling pocket. Projects track approximately 4 1/2" from side of pocket. Must be used with Model 2808 Hanging Clamp (not included). Plated steel construction.
4-1/2” L x 2” W

No. 2822 Pocket Mounting Bracket for Model 2800 Track

1 - 12 oz.
Steel offset bracket for mounting Model 2800 track to side of ceiling pocket. Projects track approximately 2" from side of pocket. Must be used with Model 2808 Hanging Clamp (not included). Plated steel construction.
4-1/2"L x 2"W

NOTE: If using pocket mounting brackets with bi-parting track system, both 2821 & 2822 pocket brackets must be used.

NOTE: These brackets are not designed for wall mounted track systems. They do not project enough to allow the curtain to stack without rubbing against the wall.

No. 2823 Ceiling Bracket

1 - 13 oz.
Ceiling Bracket used when it is not possible to drill through track and attach directly to ceiling.
Approximately: 5-1/4" long x 2" wide x 2-3/4" high.

THREADR

1 - 1 lb
Designed to allow suspension of our various track models from tensile rated threaded rod. The bracket is fabricated from hardened steel and has centered hole designed to accept 1⁄2" threaded rod. Track hanging clamps not included.
Dimensions: 3-7/8"H x 1-1/2"W x 3-1/14"L

No. 2814 [BL] Pipe Clamp

1 pr. - 13 oz.
For 1-1/4" I.D. Schedule 40 pipe

No. 2815 [BL] Pipe Clamp

1 pr. - 16 oz.
For 1-1/2" I.D. Schedule 40 pipe

No. 2816 [BL] Pipe Clamp

1 pr. - 18 oz.
For 2" I.D. Schedule 40 pipe

No. 2865 [BL] Tension Floor Pulley

1 - 1 lb. 12 oz.
Equipped with 1 oil-impregnated sleeve bearing nylon wheel. Tension spring provides continuous cord tension. Can be either wall or floor mounted. Spring-loaded latch maintains wheel in uppermost position during installation.
Approximately: 1-1/2" long x 3-1/2" wide x 13" high.

Multi-Purpose Carrier

28-MULTI

6" wide x 8-1/4" high
1 - 4 lbs.
Nylon-tired ball-bearing wheels.
Rated capacity 225 lbs.

No. 2805 [BL] Adjustable Floor Pulley

1 - 4 lbs. 5 oz.
Equipped with 1 oil-impregnated sleeve-bearing nylon wheel. Wheel locks in place via threaded axle. Adjustment - 9". Approximately: 3-1/4" long x 5" wide x 13" high.

No. 2866 5" Adjustable Floor Pulley

1 - 4 lbs. 13 oz.
For manual operation. Equipped with one 5" diameter glass-filled nylon ball-bearing wheel. Wheel locks in place via threaded axle. Adjustment – 7". Approximately: 3" long x 5-1/2" wide x 13" high. Used with Model 282.

No. 2866-A 8" Adjustable Floor Pulley

1 - 9 lbs.
Equipped with one ball-bearing 8" diameter nylon wheel. Wheel locks in place via threaded axle. Adjustment – 8". Approximately: 4" long x 8" wide x 20" high. Used with Model 283-N and Model 283-R.

No. 2825 Rubber Bumper

9 - 1 oz.
Attaches to No. 2801 Single Carriers. Functions as noise reducer. Not used with Back Pack® guides.

Need a Flexible Leg Curtain for your Stage?

Consider using the Model 28 Rotodraper®

For more information on the Model 28 and 28-A Rotodrapers®, please see page 73.

Rubber Spacers

For use with Back Pack® guides to provide quieter operation. No.2826 (1/8") inserted between carrier and attached Back Pack® Guide. No. 2827 (7/16") inserted on other side of Back Pack® Guide and between master carrier and adjoining single carrier; also used with Nos. 2849, 2850, 2851, and 2852 carriers. No. 2827-A is used with Model 283-N and Model 283-R tracks. 5/8" hole.
See Page 84 For Photo of Back Pack® Guides. See next page for Diagrams of Back Packs®.

No. 2826 Rubber Spacer

8 - 1 oz.

No. 2827 Rubber Spacer

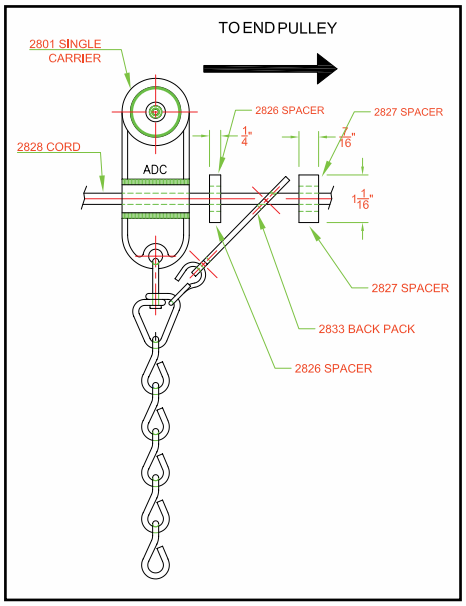
6 - 1 oz.

No. 2827-A Rubber Spacer

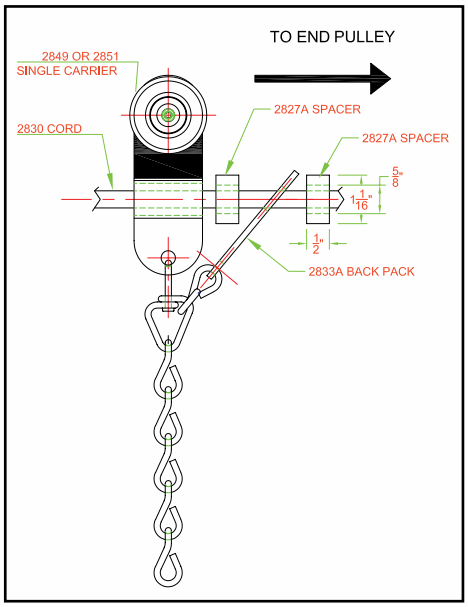
10 - 1 oz.

Back Pack Drawings

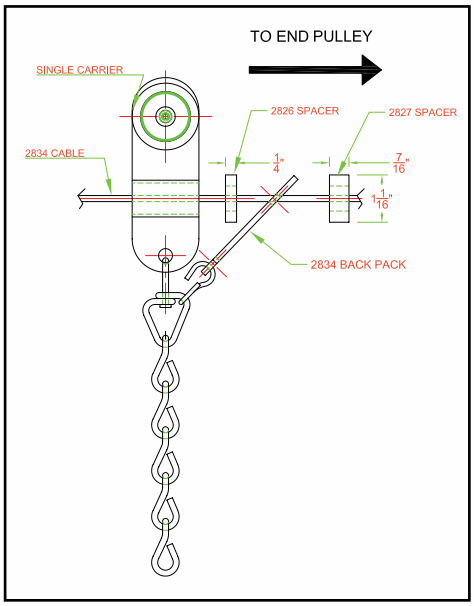
2833 Back Pack



2833A Back Pack



2834 Back Pack



Note: Do not use back-pack guides on master cariers or the last single carrier of any system.

No. 2828 Cord

100' - 5 lbs. 7 oz.
Synthetic center and stretch-resistant. For manually-operated 280, 281, 282 tracks. 3/8" (No. 12)

No. 3529 Cable

100' - 2 lbs. 7 oz.
Wire center with woven polyester cover. Used with drum-drive machines.
3/16" (No. 6)

Model 2928

No. 2829 Cable

100' - 2 lbs. 15 oz.
Wire center. Used with machine operated track systems.
1/4" (No. 8)

No. 2830 Cord

100' - 6 lbs. 2 oz.
Synthetic center and stretch resistant. For manually operated Model 283-N and Model 283-R tracks.
1/2" (No. 14)

Consider using a 2928 Inline Machine with your 280 Track System.

BL = Black Finish
2XX Series Track Systems have a black finish.

		170 BESTEEL® CWANA code							
		CORD OPERATED/MOTORIZED					WALK-ALONG		
	Parts Included	170 (270)	171 (271)	171-R (271-R)	260	172 (272)	173 (273)	173-N (273-N)	173-R (273-R)
Single Carriers	1701	√			√	√	√		
	1737		√						
	1749			√					
	1737W							√	
	1749W								√
Master Carriers	1702	√				√	√		
	1738		√					√	
	1750			√					√
	2602				√				
Pulleys	1703	√	√	√	√				
	1704	√	√	√	√				
	2803					√			
	2804					√			
	2865	√	√	√	√	√			
Cord	1728	√	√	√	√				
	1730					√			
Back Pack® Guides	1734	√*	√*	√*	√*	√*			
	1733	√*	√*	√*					
	1735					√*			

* Back Packs are optional.

SPECIFICATIONS:

BESTEEL® Model 170 (270) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1701(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 1703(BL))** and Dead-End **(Model 1704(BL))** pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops **(Model 1709(BL))** for placement at each track end and a tension Floor Pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529).
Model 170(270) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 171-N (271-N) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1737(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two nylon-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 1703(BL))** and Dead-End **(Model 1704(BL))** pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops **(Model 1709(BL))** for placement at each track end and a tension Floor Pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529).
Model 171-N(271-N) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 171-R (271-R) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1749(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two neoprene-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 1703(BL))** and Dead-End **(Model 1704(BL))** pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops **(Model 1709(BL))** for placement at each track end an a tension floor pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529).
Model 171-R (271-R) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 172 (272) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1701(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 2803(BL))** and Dead-End **(Model 2804(BL))** pulleys shall be adjustable and shall be equipped with 3" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops **(Model 1709(BL))** for placement at each track end and a tension Floor Pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 1730), for hand operated track systems, shall have synthetic center and shall be of 5/16" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529).
Model 172(272) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 173 (273) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1701(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops **(Model 1709(BL))** for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware.
Model 173(273) as manufactured by Automatic Devices Company of Allentown, PA.

SPECIFICATIONS:

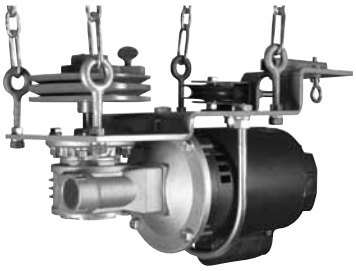
BESTEEL® Model 173-N (273-N) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1737W(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two nylon-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops **(Model 1709(BL))** for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. Model 173-N(273-N) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 173-R (273-R) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1749W(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two neoprene-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops **(Model 1709(BL))** for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. Model 173-R(273-R) as manufactured by Automatic Devices Company of Allentown, PA.

Consider an "In-Line" Type Machine.



Specifically designed for projects requiring the curtain machine to be located off of the finished floor. This model machine is designed to attach to, and align with, the curtain track and be supported by an overhead structure via eye-bolts mounted to the machine's base. The machine also eliminates the vertical operating cables that normally run from a floor mounted machine to the track live-end pulley. The control box for this model machine is provided separately and can be located up to 6' away from the machine. Control is stop/start/reverse from any point of travel.

BESTEEL® Model 260 (360) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1701(BL))** shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Master carriers **(Model 2602)** shall include 8-1/2" steel overlapping arms to provide a 17" curtain overlap on a single section track system. Live-End **(Model 1703(BL))** and Dead-End **(Model 1704(BL))** pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two end stops **(Model 1709(BL))** for placement at each track end and a tension Floor Pulley **(Model 2865(BL))** for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 260(360) as manufactured by Automatic Devices Company of Allentown, PA.

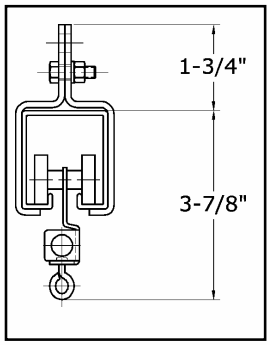
BESTEEL® Model 270P Curtain Tracks

Curtain tracks Model 1700BL shall be of 14 gauge galvanized steel construction entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (Model 1701P) shall be spaced on 12" centers and shall be of nylon construction with two polyethylene wheels held to block by a steel ball-bearing molded into the block and by a rust-proof nickel plated rivet. Each curtain carrier shall include a free-moving plated swivel and trim chain to accommodate curtain S-hook. Live-End (Model 2803BL) and Dead-End (Model 2804BL) pulleys shall be adjustable and shall be equipped with oil-impregnated sleeve bearing nylon wheels adequately guarded. The manufacturer shall furnish two End Stops (Model 1709BL) for placement at each track end and a tension Floor Pulley (Model 2865BL) for increasing cord tension. Stretch-resistant #12 operating cord (Model 2828), for hand operated track systems, shall have synthetic center, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 270P as manufactured by Automatic Devices Company of
Allentown, PA.

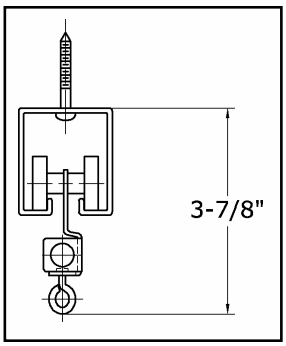
BESTEEL® 170 SERIES CURTAIN TRACKS

Model 170 Assembly

Cross Section of 170 Suspended

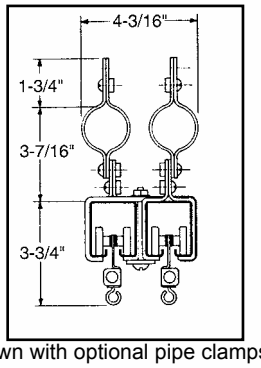


Cross Section of 170 Ceiling Mount



Cross Section of 170 Track at Center Overlap Pipe Mounted

Min. pocket width: 5 in.



Shown with optional pipe clamps.

BESTEEL® MODEL 170 (270)

BESTEEL is the most famous name in medium-duty stage tracks. The Model 170(270) is used on the majority of stage installations with medium or light weight curtains with lengths up to about 40'. On slightly heavier installations Models 171-N (271-N) or 171-R(271-R) can be used.

BESTEEL Model 260(360) is identical to Model 170 except special master carriers with extension arms are used to overlap the curtain for a single track system.

BESTEEL Model 173, which is for "walk-along" cyclorama and gym divider curtains can be outfitted with pre-manufactured curved sections.

MODEL 171-N (271-N)

Model 171-N(271-N) employs No. 1737(BL) Nylon Ball-Bearing Single Carriers and No. 1738(BL) Nylon Ball-Bearing Master Carriers which provide an easier operation are used in place of the standard No. 1701(BL) and No. 1702(BL).

MODEL 171-R (271-R)

Model 171-R(271-R) employs No. 1749(BL) Neoprene Ball-Bearing Single Carriers and No. 1750(BL) Neoprene Ball-Bearing Master Carriers which provide a quieter operation (and No. 1726 Rubber Spacers) in place of the standard No. 1701(BL) and No. 1702(BL).

MODEL 172 (272)

Model 172(272) utilizes larger end pulleys No. 2803(BL) Live End, No. 2804(BL) Dead End which provide an easier operation. Heavier Model 1730 operating cord is used.

MODEL 173 (273) (Walk-Along Track System)

Model 173(273) is for stage cyclorama and gym divider installations where it is necessary that the operator walk the curtain to its opened and closed positions. Curves are obtainable in 90°, 75°, 60° and 45° bends curved to a 24" radius. Two pairs of No. 1724(BL) or 2624(BL) splicing clamps are furnished with each curve. The track can be supplied either as a single-sectioned or overlapping unit. No cord or pulleys are supplied with "walk-along" tracks

Model 173-N (273-N) (Walk-Along Track System)

Model 173-N(273-N) provides greater strength and durability by utilizing the No. 1737(BL) Nylon Ball-Bearing Single Carriers and No. 1738(BL) Nylon Ball-Bearing Master Carriers.

Model 173-R (273-R) (Walk-Along Track System)

Model 173-R(273-R) is both quiet and durable. It features No. 1749(BL) Neoprene Ball-Bearing Single Carriers and No. 1750(BL) Neoprene Ball-Bearing Master Carriers.

BESTEEL® MODEL 260 (360)

Model 260(360) is identical to Model 170 except that it operates as a single-sectioned bi-part unit (vs. double-sectioned). No. 2602 Master Carriers (self-lapping) are used instead of No. 1702.

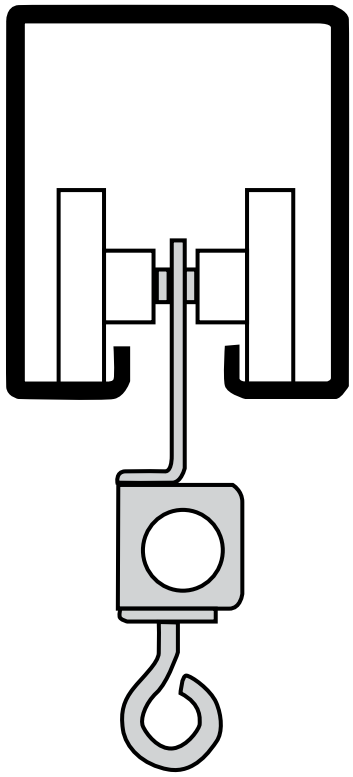
MODEL 270P

Model 270P employs 1701P & 1702P carriers which have larger diameter wheels and steel ball- bearings. The use of these carriers in addition to the 2803BL and 2804BL Live and Dead-End pulleys, which have larger diameter sheaves than the standard units, helps provide an easier hand operation on larger systems. This track system is only available with a black finish.

Cord operated 170 and 260 series tracks cannot be curved.

No. 1700 Channel [1700BL]
1' - 1 lb. 11 oz.

No. 1700-A [BL] Channel
1' - 9 oz.
14 gauge galvanized steel. (1700BL powder coated black finish) No. 1700-ABL supplied in 12 gauge aluminum black finish. Obtainable in unspliced lengths up to 26' (1700-A, 24' max unspliced length). Holes can be drilled for direct ceiling attachment.
Approximately: 1-3/4" wide x 2" high.



Full Size End View

No. 1701 [BL] Single Carrier
1 - 1 oz.
Carrier spacing: 12". Block constructed of plated steel with 2 polyethylene wheels. Plated swivel for free, effortless curtain movement.
Carrier width: Approximately 1-3/16".

No. 1702 [BL] Master Carrier
1 - 3 oz.
Block constructed of plated steel with 4 polyethylene wheels. Plated swivel for free, effortless curtain movement. Supplied with 2 cord/cable connectors. (Model C098)
Carrier width: Approximately 3".

No. 1737 [BL] Nylon Ball-Bearing Single Carrier
1 - 2 oz.
Plated steel body equipped with 2 nylon-tired ball-bearings wheels which help provide easier operation and service life. Used with Model 171-N.

No. 1738 [BL] Nylon Ball-Bearing Master Carrier

1 - 5 oz.
Plated steel body equipped with 4 nylon-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement. Supplied with 2 cord/cable connectors (Model C098).
Carrier width: Approximately 3".
Used with Model 171-N.

No. 1749 [BL] Neoprene Ball-Bearing Single Carrier

1 - 2 oz.
Plated steel body equipped with 2 neoprene-tired ball-bearing wheels which help provide a quiter operation.
No. 1726 Rubber Spacer (included) must be inserted between carriers. Used with Model 171-R.

No. 1750 [BL] Neoprene Ball-Bearing Master Carrier

1 - 6 oz.
Plated steel body equipped with 4 neoprene-tired ball-bearing wheels. Also equipped with 2 cord/cable connectors (Model C098).
Used with Model 171-R.

No. 1701-P Single Carrier

1 - 3-1/4 oz.
Carrier spacing: 12". Block constructed of nylon material supported from ball-bearing with 2 heavy duty polyethylene wheels. Larger diameter wheels provide easier operation for non-overlapping tracks. Plated swivel for free, effortless curtain movement. Trim chain supplied for curtain trimming.
Approximately 9-1/4" high.

No. 1702-P Single Carrier

1 - 9 oz.
Block constructed of plated steel supported from 2 ball-bearings with 4 heavy duty polyethylene wheels and 2 cable clips which clamp cord to carrier. Larger diameter wheels provide easier operation for non-overlapping tracks.
Approximately 9-1/4" high.

No. 1740 Masking Master Carrier

1 - 1 lb.
For side-masking tracks. Steel plate is attached to top of masking frame. Constructed of painted steel equipped with 4 neoprene-tired ball-bearing wheels and 2 cord/cable connectors (Model C098).
Carrier width: Approximately 4".

No. 1751-N Door Carrier

1 – 20 oz.
Constructed of 4 nylon tired ball-bearing wheels mounted to plated steel body. Adjustable design permits leveling of door height without removing door from carrier. Rated for 70 pound load on properly supported track.
1 – 4" long x 1-1/4" wide x 5-1/2" high (to base of plate)
Model 1751 equiped with steel ball-bearing wheels.

No. 1751A Basic Scenery Carrier

1-14.5 oz.
Rated for 150 pound load on properly supported track.
Approximately 4-1/2" long x 3-1/2" high
3/8" thread

No. 2602 Master Carrier

1 - 12 oz.
Plated steel body equipped with 4 solid Kralastic wheels and 2 cord/cable connectors (Model C098). Extension arm provides 17" overlap (8-1/2" in front of 8-1/2").
Carrier width: Approximately 13".
Used with Model 260.

No. 1702B-12" Master Carrier with Manual Brake

1 - 1 lb. 8 oz.
One foot in length and features nylon tired, ball-bearing wheels. The spring-loaded brake is released by pulling down on an operating line when positioning the carrier. For walk-draw applications only.
Also available in 4' version (Model 1702B4)

No. 1703 (BL) Live End Pulley

1 - 1lb. 4 oz.
Equipped with 2 oil-impregnated sleeve-bearing steel wheels. Steel block, under-hanging type, anchorable to any position under track without drilling.
Pulley width: Approximately 3".

No. 1704 (BL) Dead End Pulley

1 - 9.5 oz.
Equipped with 1 oil-impregnated sleeve-bearing steel wheel. Steel block, anchorable to any position under track without drilling. Pulley width: Approximately 3".

No. 2803 (BL) Live End Pulley

1 - 2 lbs. 5 oz.
No. 2803 Live End Pulley can be used to help ease the operation of a 170 series track system. Standard with Model 172.
Pulley width: Approximately 4".

No. 2804 (BL) Dead End Pulley

1 - 1 lb. 8 oz.
Can be used to help ease the operation of a 170 series track system. Standard with Model 172.
Pulley width: Approximately 4".

No. 1703-AC Center-Take-Off Pulley Ceiling Mount

1 – 1 lb. 10 oz.
Center-Take-Off Pulley for ceiling mounted track systems. Designed to route the operating lines perpendicular to the track. Must add 1 each 1704 Dead-End pulley if used. 1703-AC must be located a minimum of 4' from the end of the track. Additional pulleys may be required to mule operating lines to floor pulley or machine. Approximately: 6" long x 3" wide x 3" high.

1703H Horizontal Live End Pulley

1 - 2 lbs
Used in place of the standard Model 1703 Live End Pulley. The pulley routes the operating lines horizontally and at a 90 degree angle relative to the track. A mule sheave (Model MB-2) can be used at the back wall to route the cables to a floor mounted machine or tension pulley.
Dimensions: 7-1/2"L x 6-3/4"W

No. 1703-F Flying Live End Pulley

1 – 2 lbs. 7 oz.
Used with flying type curtain machines. Pulley is designed to route the cable 180 degrees back over the top of the track, to the track-mounted machine.
Extends beyond track approximately 2".

No. 1703-AS Center-Take-Off Pulley Suspended Mount

1 – 3 lbs. 5 oz.

Center-Take-Off Pulley for suspended track systems. Designed to route the operating lines perpendicular to the track. Must add 1 each 1704 Dead End pulley if used. 1703-AS must be located a minimum of 4' from the end of the track. Additional pulleys may be required to mule operating lines to floor pulley or machine. Approximately: 4-1/2" long x 4-7/8" wide x 3-13/16" high.

No. 1724 (BL) Splicing Clamp

1 pr. - 4 lbs. 3 oz.

Two piece 11 gauge steel clamp for joining track sections assuring proper alignment of channels.

Approximately: 12" long x 2" wide x 3-3/4" high.

NOTE: For suspended tracks only.

No. 1708 (BL) Hanging Clamp

1 pr. - 6.5 oz.

Recommended spacing: 6'. Steel, chain or cable suggested for track suspension. Adjustable to any location.

No. 2624 (BL) Splicing Clamp

1 pr. - 2 lbs.

Two piece 11 gauge steel clamp for joining track sections on ceiling-mounted installations assuring proper alignment of channels.

Approximately: 12" long x 2" wide x 2-1/4" high.

NOTE: For ceiling mounted systems only.

No. 1709 (BL) End Stop

1 - 4.5 oz.

Prevents carriers from moving beyond selected position in track.

Cannot be used with Rotodrapers®. Proper hardware supplied with Rotodrapers®.

No. 1707 (BL) Lap Clamp

1 - 9.5 oz.

For securing bi-parting tracks at center overlap. For suspended tracks only. Sold individually.

No. CPS-2 Center Pipe Support

1 pr - 5.5 oz.

To facilitate the clamping of steel track channel to pipe batten, a Center Pipe Support is available. The Center Pipe Support is placed at the overlap, and the two lap clamps are used in the normal manner.

Lap & pipe clamps sold separately.

No. 2865 (BL) Tension Floor Pulley

1 - 1 lb. 12 oz.

Plated steel construction equipped with 1 oil-impregnated sleeve-bearing nylon wheel. Tension spring provides cord tension. Can be either wall or floor mounted. Spring-loaded latch maintains wheel in uppermost position during installation.

Approximately: 1-1/2" long x 3-1/2" wide x 13" high.

No. 2805 (BL) Adjustable Floor Pulley

1 - 4 lbs. 5 oz.

Powder Coated steel side plates equipped with 1 oil-impregnated sleeve-bearing wheel. Locks in place via threaded axle. Adjustment – 9".

Approximately: 3-1/4" long x 5" wide x 13" high.

THREADR
1 -1 lb
Designed to allow suspension of our various track models from tensile rated threaded rod. The bracket is fabricated from hardened steel and has centered hole designed to accept 1⁄2" threaded rod. Track hanging clamps not included.
Dimensions: 3-7/8"H x 1-1/2"W x 3-1/14"L

DISCONTINUED

No. 1783-Wall Mounting Bracket for Model 1700 Track
1 - 3 lbs. 12 oz.
Used to mount 2 Model 1700 tracks (bi-part operation) to side walls. Projection of track closest to the wall is 12" (to center of track). Painted steel angle with 3 mounting holes on vertical leg.
14" long x 14" high x 1-1/2" deep

Model 1703S available for single track applications.

No. 1721-Pocket Mounting Bracket for Model 1700 Track
1 - 8 oz.
Steel offset bracket for mounting Model 1700 track to side of ceiling pocket. Projects track approximately 4" from side of pocket. Must be used with Model 1708 Hanging Clamp (not included). Plated steel construction.
4-3/16"L x 1-1/4"W

No. 1722-Pocket Mounting Bracket for Model 1700 Track
1 - 8 oz.
Steel offset bracket for mounting Model 1700 track to side of ceiling pocket. Projects track approximately 2" from side of pocket. Must be used with Model 1708 Hanging Clamp (not included). Plated steel construction.
4-3/16"L x 1-1/4"W

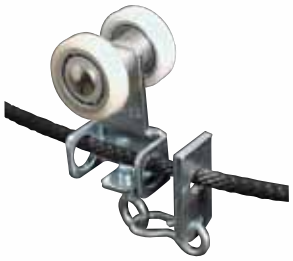
NOTE: If using pocket mounting brackets with bi-parting track system, both 2821 & 2822 pocket brackets must be used.

NOTE: These brackets are not designed for wall mounted track systems. They do not project enough to allow the curtain to stack without rubbing against the wall.

No. 1713 [BL] Pipe Clamp
1 pr. - 5.5 oz.
For 1" I.D. Schedule 40 pipe

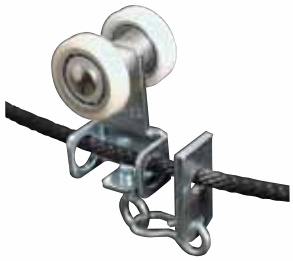
No. 1714 [BL] Pipe Clamp
1 pr. - 7 oz.
For 1-1/4" I.D. Schedule 40 pipe

No. 1715 [BL] Pipe Clamp
1 pr. - 7 oz.
For 1-1/2" I.D. Schedule 40 pipe



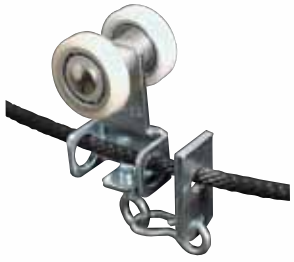
No. 1733 [BL] Back Pack Guide® (Optional)

4 - 1 oz.
Provides sliding door effect. Prevents curtain from accumulating until track ends are reached.
Thickness: 1/8".



No. 1734 [BL] Back Pack Guide® (Optional)

1 - 5 oz.
Provides sliding door effect (for machine operated tracks). Prevents curtain from accumulating until track ends are reached. Has smaller hole than 1733.
Thickness: 1/8".



No. 1735 [BL] Back Pack Guide® (Optional)

1 - 5 oz.
Used with Model 172 tracks. Has larger hole for 1730 cord.
Thickness: 1/8".

No. 1748 Space Saver

5 - 1 oz.
For reducing curtain stacking area. Used in place of carrier. Recommended spacing: no more than 1 between two carriers at end pulley area only. Total quantity used should not exceed 10% of curtain width. Thickness: 1/8".

No. 1726 Rubber Spacer

(See No. 1749 Single Carrier)

No. 1728 Cord

100' - 2 lbs. 4 oz.
Synthetic center and stretch-resistant. For manually-operated tracks.
1/4" (No. 8)

No. 1730 Sash Cord

100' - 4 lbs.
Used with Model 172 tracks.
Synthetic center with woven cover.
5/16" (No. 10)

No. 3529 Cable

100' - 2 lbs. 7 oz.
Wire center with woven polyester cover.
Used with drum-drive machines.
3/16" (No. 6)

No. 1752 [BL] Curve [90°, 24" radius]

1 - 8 lbs. 8 oz., 62" long
(Approximately 3' x 3').

No. 1753 Curve [75°, 24" radius]

1 - 7 lbs. 6 oz., 57" long.
(Approximately 2'8" x 2'8").

No. 1754 Curve [60°, 24" radius]

1 - 6 lbs. 6 oz., 51" long
(Approximately 2'3" x 2'3").

No. 1755 [BL] Curve [45°, 24" radius]

1 - 5 lbs. 14 oz., 44" long
(Approximately 2' x 2').

CUSTOM CURVES ARE NOT AVAILABLE.

CURVES USED WITH WALK-ALONG TRACK SYSTEMS ONLY.

Two No. 1724 or 2624 (must be specified when ordering). Splicing Clamps must be purchased separately.

	Parts Included	500 PATRIARC® CWANA code					
		CORD OPERATED/MOTORIZED				WALK-ALONG	
		500 (600)	500-R (600-R)	501 (601)	501-R (601-R)	502 (602)	502-R (602-R)
	STRAIGHT			√	√	√	√
	CURVED*	√	√			√	√
Single Carriers	5001 (BL)	√		√	√	√	
	5001-A (BL)		√				√
Master Carriers	5002 (BL)	√		√		√	
	5002-A (BL)				√		√
Pulleys	5003 (BL)	√	√	√	√		
	5004 (BL)	√	√	√	√		
	2866**	√	√	√	√		
Cable Guide	5058	√	√	√	√		
Cord	2828**	√	√	√	√		

BL = Black Finish
6XX Series Track Systems have a black finish.

*Must be factory curved.

**For manually operated tracks, replace 5029 cable (standard) with 2828 cord. Heavy duty track applications generally require motorization.

SPECIFICATIONS:

PATRIARC® Model 500 (600) Curtain Tracks

Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5" diameter ball-bearing wheels adequately guarded. Nylon cable guides **(Model 5058)** shall be furnished for the purpose of guiding operating cable along the contour of the factory-formed curved track. Operating cable (Model 5029) shall be of 3/16" diameter extruded nylon with wire-center. 1-1 /4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 500(600) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 500-R (600-R) Curtain Tracks

Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001-A(BL))** shall be spaced on 12" centers and shall be of steel construction to include two neoprene-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5" diameter ball-bearing wheels adequately guarded. Nylon cable guides **(Model 5058)** shall be furnished for the purpose of guiding operating cable along the contour of the factory-formed curved track. Operating cable (Model 5029) shall be of 3/16" diameter extruded nylon with wire-center. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 500-R(600-R) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 501 (601) Curtain Tracks (Straight-Uncurved Systems)

Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5" diameter ball-bearing wheels adequately guarded. Operating cable (Model 5029) shall be of 3/16" diameter extruded nylon with wire-center. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 501(601) as manufactured by Automatic Devices Company of Allentown, PA.

SPECIFICATIONS:

PATRIARC® Model 501-R (601-R) Curtain Tracks (Straight-Uncurved Systems)

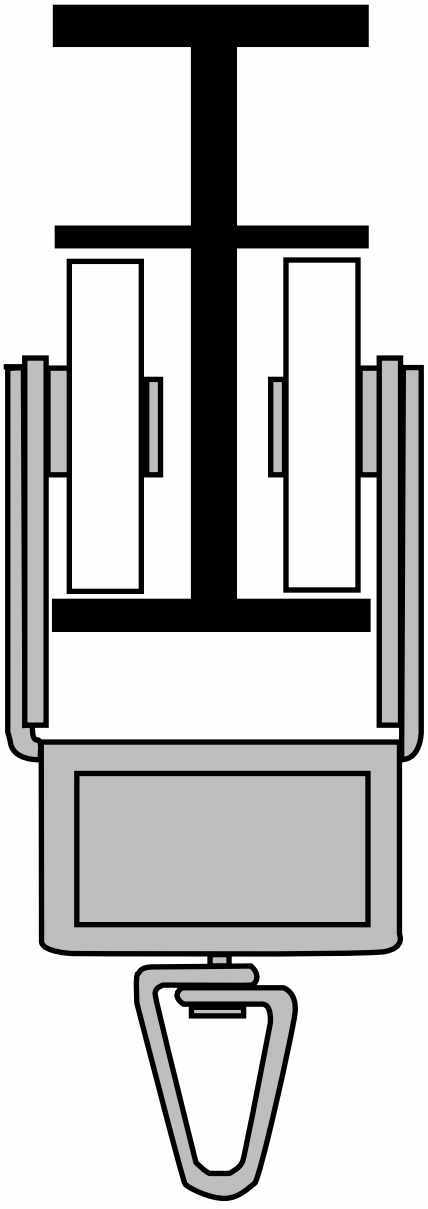
Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001-A(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5" diameter ball-bearing wheels adequately guarded. Operating cable (Model 5029) shall be of 3/16" diameter extruded nylon with wire-center. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 501-R(601-R) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 502 (602) Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 5000(5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish four end stops **(Model 5009(BL))** for placement at track ends.
Model 502(602) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 502-R (602-R) Curtain Tracks (Walk-Along Track System)

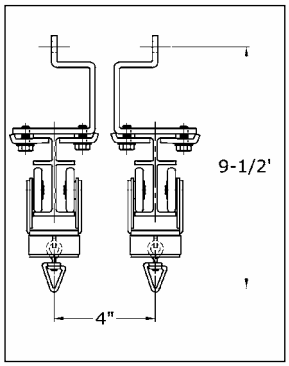
Curtain tracks (Model 5000(5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001-A(BL))** shall be spaced on 12" centers and shall be of steel construction to include two neoprene-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish four end stops **(Model 5009(BL))** for placement at track ends.
Model 502-R(602-R) as manufactured by Automatic Devices Company of Allentown, PA.



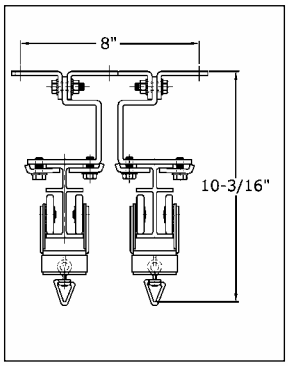
Full Size End View

Model 500 Assembly

Cross Section of 500 Suspended

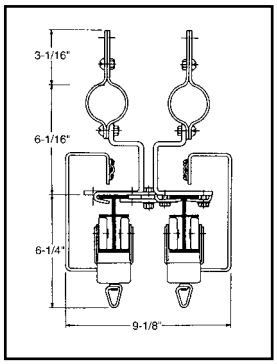


Cross Section of 500 Ceiling Mount



Cross Section of 500 track at Center Overlap Pipe Mounted

Min. pocket width: 10 in.



Shown with optional pipe clamps.

PATRIARC® MODEL 500 (600)

PATRIARC® is an all-purpose heavy-duty stage curtain track system specially designed for large reverse curved auditorium stages. All curves are custom formed at the factory. Equipped with ball-bearing carriers, end pulleys and cable guides, this is one of the quietest tracks in the ADC line.

PATRIARC® track systems are normally used with a machine operator. Each drum curtain machine furnished with PATRIARC systems is equipped with a Cable Tension Device at no extra cost. Cable Tension Devices are used to help maintain tension on the operating cables as well help guide the operating cable onto the grooved drum.

PATRIARC® curved tracks are available for hand-operation, though not recommended.Curved track systems are inherently more difficult to operate manually than are straight track systems. While PATRIARC® tracks are available for manual applications, we suggest motorizing curved applications of the track.

MODEL 500-R (600-R)

Model 500-R(600-R) is identical to Model 500(600) except that No. 5001-A neoprene-tired Ball-Bearing Single Carriers are used in place of the standard nylon-tired No. 5001 single carriers.

MODELS 501 AND 501-R (600 AND 601-R)

Model 501(601) is entirely straight in layout. Model 501-R(601-R) is identical to Model 501(601) except that No. 5001-A(BL) neoprene-tired Ball-Bearing Single Carriers are used in place of the standard nylon-tired No. 5001(BL) single carriers.

MODELS 502 AND 502-R (602 AND 602-A) (Walk-Along Systems)

Model 502(602) is for walk-along operation only. This track system is recommended for stage cyclorama installations where it is necessary that the operator walk the curtain to its opened and closed positions. No cord or pulleys are supplied with walk-along tracks. No. 5002-A(BL) Master Carriers and No. 5008-A Hanging Clamps (or No. 5023A Ceiling Clamps) are used instead of No. 5002(BL) and No. 5008. Model 502-R(602-R) is identical to Model 502(602) except that No. 5001-A(BL) neoprene-tired Ball-Bearing Single Carriers are used in place of the standard nylon-tired No. 5001(BL) single carriers.

Explanation of Curved Track Terms

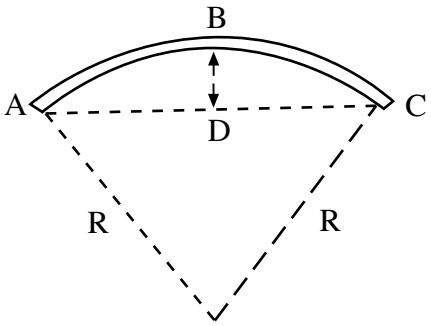
A sketch or template must accompany each inquiry or order for PATRIARC® curved tracks. The sketch shown below explains terms used in connection with curved tracks. A simple formula for determining the radius when Chord (AC) and Rise (BD) are given is as follows:

$$\text{Radius (R)} = \frac{\left(\frac{AC}{2}\right)^2 + BD^2}{2BD}$$

When placing an order for PATRIARC curved tracks, the following information is required:

A. Arc (track channel) and all radii dimensions
B. Manner of mounting track (suspended or ceiling-mounted).
C. Is the track machine or hand operated?

NOTE: Track can be curved to a minimum 2' radius for curves up to 90 degrees. For curves greater than 90 degrees and systems with multiple curves please consult the factory.



ABC - Arc
AC - Chord
BD - Rise
R - Radius

No. 5000[BL] Channel

1' - 1-1/2 lbs.
7 gauge extruded aluminum, mill-finish (5000BL-Anodized Black Finish). Obtainable in unspliced lengths up to 20'. Custom-curved at factory. Flange above carrier prevents tilting of carrier.
Approximately: 1-5/8" wide x 3-1/4" high.

No. 5001[BL] Nylon Ball-Bearing Single Carrier

1 – 11 oz.
Carrier spacing: 12". Block constructed of plated steel supported from 2 nylon-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement. Rubber bumpers and nylon strips attached to carrier to assure quiet operation.
Carrier width: Approximately 2-1/8".

No. 5001-A[BL] Neoprene Ball-Bearing Single Carrier

1- 11 oz.
Carrier spacing: 12". Block constructed of plated steel supported from 2 neoprene-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement. Rubber bumpers and nylon strips attached to carrier to assure quiet operation.
Carrier width: Approximately 2-1/8".

5001DS DRIFT STOP CARRIER

1 - 12 oz
Prevents the last carrier of the system from drifting past a predetermined point in the stack area when the dead-end of the curtain is not tied off to the live or dead-end pulley.
Dimensions: 3-1/14" W x 2-1/4" L

No. 5002 Master Carrier

1 - 4 lbs. 3 oz.
Block constructed of painted steel supported from 4 nylon-tired ball-bearing wheels. Rubber bumper included for quieter operation. Carrier width: Approximately 5-1/4".

No. 5002-S Master Carrier With Extension Arm

1 - 4 lbs. 12 oz.
Used with single section track systems to create center overlap. Creates 20" overlap (10" in front of 10").
Approximately: 1'- 4" long x 6-9/16" high x 3-3/4" wide.

No. 5002-A Walk-Along Master Carrier

1 - 1 lb. 13 oz.
Master carrier for Model 500 track series systems with walk-along operation. Painted steel construction with nylon-tired ball-bearing equipped wheels and rubber bumpers for noise suppression.
Approximately: 5-1/16"L x 2-3/16"W

No. 5051 Scenery Panel Carrier

1 - 2 lbs. 6 oz.
Walk-along panel carrier for Model 500 track series systems. Adjustable bottom plate mounts directly to the top of the scenery panel allowing for leveling of the panel after installation. Painted steel construction with nylon-tired ball-bearing equipped wheels. **Maximum capacity is 150 pounds.**
Approximately: 5-1/16"L x 2-3/16"W

No. 5003(BL) Live End Pulley

1 - 6 lbs. 8 oz.
Plated steel construction equipped with 2 glass-filled nylon tired ball-bearing 5" diameter wheels. Attaches to track end. Extends beyond track 6".
Pulley width: Approximately 6-1/2".

No. 5004(BL) Dead End Pulley

1 - 2 lbs. 15 oz.
Plated steel construction equipped with 1 glass-filled nylon tired ball-bearing 5" diameter wheel. Attaches to track end.
Pulley width: Approximately 5".

No. 5003-F Flying Live End Pulley

1 – 5 lbs.
Used with flying type curtain machines. Routes operating cable 180 degrees up and over the track to the track mounted machine. Note: machine must be located at least 10' from the pulley.
Approximately: 8" long x 6" wide x 8" high.

No. 5003-A Center Take-Off Live End Pulley

1 - 5 lbs. 14 oz.
Routes operating cables perpendicular to the track. Add 1 each Model 5004 when using this device. 5003-A must be located a minimum of 4' from the end of the track. Additional pulleys may be required to mule operating lines to machine or floor pulley.
Approximately: 7-3/8" long x 6-1/2" wide x 2-3/8" high.

No. 5008 Hanging Clamp

1 - 1 lb. 4 oz.
Recommended spacing: 5' with additional units in curves and stack areas. Constructed of painted hardened steel. Pipe batten recommended for track suspension. Adjustable to any location.
Approximately: 4" high.

No. 5023B(BL) Ceiling Clamp

1 - 9.5 oz.
Recommended spacing: 5' with additional units at curves and in stack areas. Constructed of plated steel. For use with ceiling-mounted tracks. Approximately: 2-1/4" long x 1-1/4" wide x 1-3/4" high.

No. 5023A Ceiling Clamp for Walk-Along Systems

1 - 8 oz.
Used to ceiling mount Model 502 walk-along track systems. Allows track to be mounted directly to an overhead structure. Can ONLY be used with walk-along systems. Painted steel construction.
Approximately: 3-5/8"L x 1-1/2"W

No. 5008-A(BL) Hanging Clamp

1 pr. - 4.5 oz.
Used with Model 502 suspended walk-along systems only.
Recommended spacing: 5' with additional units at curves and in stacking areas. Constructed of plated steel. Pipe batten recommended for track suspension.
Approximately: 1-1/2"W x 2"L x 2"H

No. 5024(BL) Splicing Clamp

1 pr. - 1 lb. 3 oz.
Splicing bars for joining track sections assuring proper alignment of track.
Approximately: 6" long x 3/8 wide x 7/8" high.

No. 5009 End Stop

1 - 1.5 oz.
Prevents carriers from moving beyond selected position in track.
Located at center overlap and end of tracks.

No. 5007(BL) Lap Clamp

2 - 2 lbs. 13 oz.
For attaching double-sectioned track at center overlap. Assures proper spacing of tracks.
Used with suspended bi-parting tracks only. Sold individually.

No. 5058 Cable Guide

1 - 1 lb. 2 oz.
Consists of nylon ball-bearing rollers for guiding cable along track channel. Drawing of track layout required when ordering to assure proper roller placement. Available in 3 layouts color coded white, red, yellow.

No. 2866(BL) Adjustable Floor Pulley

1 - 5-1/2 lbs.
For manual operation. Equipped with 1 - 5" diameter glass-filled nylon ball-bearing wheel. Locks in place via threaded axle. Adjustment – 7".
Approximately: 3" long x 5-1/2" wide x 13" high.

No. 2828 Cord

100' - 5 lbs. 7 oz.
For manual operation only.
3/8" diameter (No. 12)

No. 5029 Cable

100' - 3 lbs. 10 oz.
Wire center with extruded nylon cover. For machine operated 500 Series tracks only.
3/16" diameter (No. 6)

DISCONTINUED

	Par Includ	350 AND 340 CURVIT-SURE® CWANA code									
		CORD OPERATED/MOTORIZED								WALK-ALONG	
		35	340	350-R	340-R	351	341	351-R	341-R	342	342-R
	STRAIGH					√	√	√	√	√	√
	CURVED*	√	√	√	√						
Single Carriers	3501	√	√			√	√		√	√	
	3501-A				√			√			√
Master Carrier	3502	√		√		√		√			
	3402		√		√		√		√	√	√
	3439		√		√		√		√		
Pulleys	3503	√		√				√			
	3504	√		√		√		√			
	3403		√		√		√		√		
	3404		√		√		√		√		
Idler Brackets	3526	√		√							
	3526-A	√		√							
Cable	3529**	√	√	√	√	√	√	√	√		

*Must be factory curved.
**For hand operated tracks replace 3529 with 2829 and add 2805 Floor pulley.

Note: Curved track systems are inherently more difficult to operate manually than are straight track systems. While Curvit-Sure® tracks are available for manual applications, we suggest motorizing curved applications of this system.

SPECIFICATIONS:

CURVIT-SURE® Model [illegible] (or 340) Curtain Tracks

Curtain tracks (Model 35[illegible]) shall be of 12 gauge extruded aluminum I-channel construction with inverted L-shaped flanges on each side of center beam to assure channel rigidity and provide two separate parallel treads for carrier wheels and runways for cable. Each curtain carrier **(Model 3501)** shall be spaced on 12” centers and shall be of steel construction to include two nylon-tired ball-bearing wheels. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Nylon snap-on spacers shall be attached to wheel supports and anti-friction wear tape shall be applied to critical areas to reduce noise and friction. Live-End **(Model 3503)** and Dead-End **(Model 3504)** pulley blocks shall be equipped with 3-1/4” diameter sleeve-bearing wheels. The manufacturer shall furnish two End Stops **(Model 35[illegible])** for placement at track ends. Operating cable (Model 3529) shall be of 3/16” diameter woven cotton with wire-center. 1-1/4” I.D. stiffening pipe or the equivalent shall be used to support both straight and factory-formed curved areas of all suspended curved tracks. Hand operated systems shall use 1/4” diameter glazed woven cotton cable Model 2829.
Model 350 (or 340) as manufactured by Automatic Devices Company of Allentown, PA.

CURVIT-SURE® Model 350-R (or 340-R) Curtain Tracks

Curtain tracks (Model 3500) shall be of 12 gauge extruded aluminum I-channel construction with inverted L-shaped flanges on each side of center beam to assure channel rigidity and provide two separate parallel treads for carrier wheels and runways for cable. Each curtain carrier **(Model 3501-A)** shall be spaced on 12” centers and shall be of steel construction to include two neoprene-tired ball-bearing wheels. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Nylon snap-on spacers shall be attached to wheel supports and anti-friction wear tape shall be applied to critical areas to reduce noise and friction. Live-End **(Model 3503)** and Dead-End **(Model 3504)** pulley blocks shall be equipped with 3-1/4” diameter sleeve-bearing wheels. The manufacturer shall furnish two end stops **(Model 3509)** for placement at track ends. Operating cable (Model 3529) shall be of 3/16” diameter woven cotton with wire-center. 1-1/4” I.D. stiffening pipe or the equivalent shall be used to support both straight and factory-formed curved areas of all suspended curved tracks. Hand operated systems shall use 1/4” diameter glazed woven cotton cable Model 2829.
Model 350-R (or 340-R) as manufactured by Automatic Devices Company of Allentown, PA.

CURVIT-SURE® Model 351 (or 341) Curtain Tracks (Straight Track System)

Curtain tracks (Model 3500) shall be of 12 gauge extruded aluminum I-channel construction with inverted L-shaped flanges on each side of center beam to assure channel rigidity and provide two separate parallel treads for carrier wheels and runways for cable. Each curtain carrier **(Model 3501)** shall be spaced on 12” centers and shall be of steel construction to include two nylon-tired ball-bearing wheels. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Nylon snap-on spacers shall be attached to wheel supports and anti-friction wear tape shall be applied to critical areas to reduce noise and friction. Live-End **(Model 3503)** and Dead-End **(Model 3504)** pulley blocks shall be equipped with 3-1/4” diameter sleeve-bearing wheels. The manufacturer shall furnish two end stops **(Model 3509)** for placement at track ends. Operating cable (Model 3529) shall be of 3/16” diameter woven cotton with wire-center. 1-1/4” I.D. stiffening pipe or the equivalent shall be used to support all suspended tracks. Hand operated systems shall use 1/4” diameter glazed woven cotton cable Model 2829.
Model 351 (or 341) as manufactured by Automatic Devices Company of Allentown, PA.

CURVIT-SURE® Model 351-R (or 341-R) Curtain Tracks (Straight Track System)

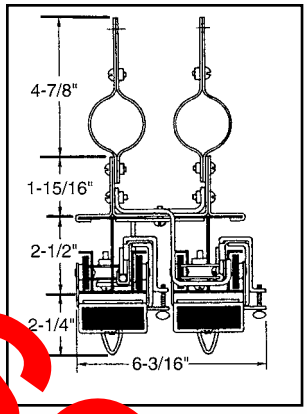
Curtain tracks (Model 3500) shall be of 12 gauge extruded aluminum I-channel construction with inverted L-shaped flanges on each side of center beam to assure channel rigidity and provide two separate parallel treads for carrier wheels and runways for cable. Each curtain carrier **(Model 3501-A)** shall be spaced on 12” centers and shall be of steel construction to include two neoprene-tired ball-bearing wheels. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Nylon snap-on spacers shall be attached to wheel supports and anti-friction wear tape shall be applied to critical areas to reduce noise and friction. Live-End **(Model 3503)** and Dead-End **(Model 3504)** pulley blocks shall be equipped with 3-1/4” diameter sleeve-bearing wheels. The manufacturer shall furnish two end stops **(Model 3509)** for placement at track ends. Operating cable (Model 3529) shall be of 3/16” diameter woven cotton with wire-center. 1-1/4” I.D. stiffening pipe or the equivalent shall be used to support all suspended tracks. Hand operated systems shall use 1/4” diameter glazed woven cotton cable Model 2829.
Model 351-R (or 341-R) as manufactured by Automatic Devices Company of Allentown, PA.

DISCONTINUED

Model 350 Assembly

Cross Section of 350 Track at Center Overlap

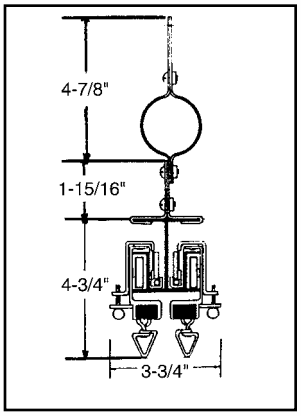
Min. pocket width: 7 in.



Shown with optional pipe clamps.

Cross Section of 340 Track at Center Overlap

Min. pocket width: 4 - 1/2 in.



Shown with optional pipe clamps.

DISCONTINUED

CURVIT-SURE® MODEL 350

Curvit-Sure® 350 is a double-sectioned curved track designed for medium weight curtains on bi-parting lengths of up to 60' (layout dependent). All curves are factory formed with **minimum radius of 6'** (layout dependent). The operating cord is routed through a trough and idler system and does not come into contact with any carriers except the masters. The headsides at each end have 1-1/4" cutaway area to allow for insertion or removal of single carriers. Anti-friction tape and nylon spacers applied at critical areas reduce noise and friction.

Manually operated cord-drawn curved tracks require more pulling effort than straight tracks. Therefore, curved tracks should be motorized whenever possible.

Curvit-Sure® tracks cannot be used in reverse curve applications.

MODEL 350-R

Model 350-R is identical to Model 350 except that No. 3501-A neoprene Ball-Bearing Single Carriers are used in place of the standard No.3501 Single Carriers. Neoprene carriers help reduce the noise of a track system.

MODELS 351 AND 351-R

Model 351 is identical to Model 350 except that it is ENTIRELY STRAIGHT IN LAYOUT. This unit is especially desirable for installations where it is necessary that the cord be concealed within the track channel. Model 351-R is identical to Model 351 except that No. 3501-A neoprene Ball-Bearing Single Carriers are used in place of the standard No.3501 Single Carriers.

MODELS 340 AND 340-R

Model 340 is a single-sectioned track designed for medium weight curtains on bi-parting lengths of up to 50' (layout dependent). The cord is completely concealed in the track channel, and overlapping is accomplished by master and tandem carriers which by-pass on opposite sides of the track.

Model 340-R is identical to Model 340 except that it features Model 3501-A neoprene-tired ball-bearing single carriers.

MODELS 341, 341-R

Model 341 is identical to Model 340 track except that it is ENTIRELY STRAIGHT IN LAYOUT.

Model 341-R is identical to Model 340 track except that it is ENTIRELY STRAIGHT IN LAYOUT and it uses Model 3501-A neoprene-tired ball-bearing single carriers.

MODELS 342, 342-R

Model 342 is for WALK-ALONG operation only and does not include any cords, end pulleys, or a floor pulley. It utilizes the same components as the Model 350 track with the exceptions of the pulleys.

Model 342-R is also for WALK-ALONG operation only and includes no cords, end pulleys, or a floor pulley. It utilizes the same components as the Model 342 track and includes Model 3501-A neoprene-tired ball-bearing.

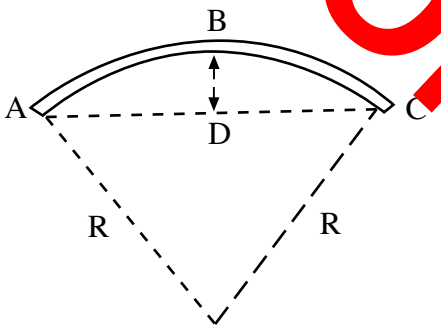
Explanation of Curved Track Terms

A sketch or template must accompany each inquiry or order for Curvit-Sure® curved tracks. The sketch shown below explains terms used in connection with curved tracks. A simple formula for determining the radius when Chord (AC) and Rise (BD) are given is as follows:

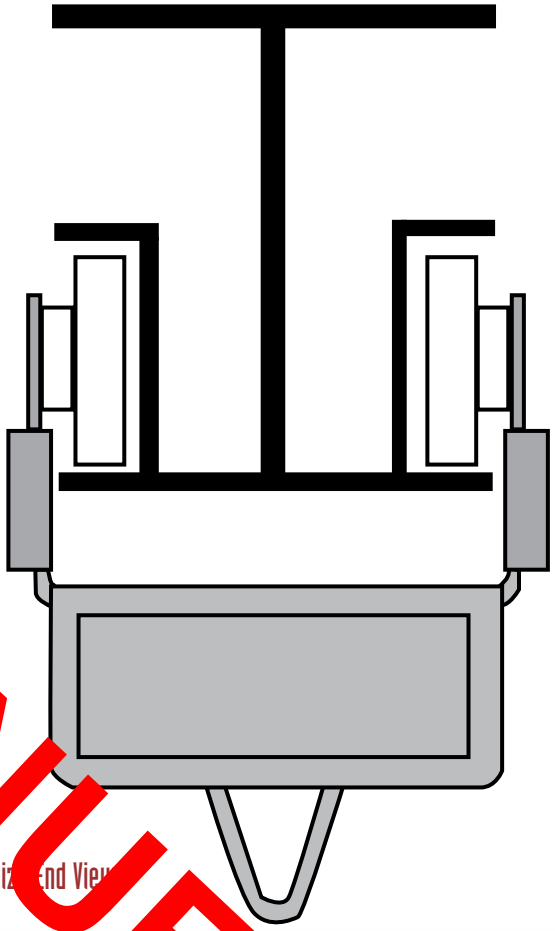
$$\text{Radius (R)} = \frac{(\frac{AC}{2})^2 + BD^2}{2BD}$$

When placing an order for Curvit-Sure® curved tracks, the following information is required:

A. Arc (track channel) and all radii dimensions (6' minimum radius).
B. Manner of mounting track (suspended or ceiling-mounted).
C. Is the track machine or hand operated?



ABC - Arc
AC - Chord
BD - Rise
R - Radius



Full Size End View

DISCONTINUED

No. 3500 Channel

1' - 1 lb.
12 gauge extruded aluminum, mill-finish. Obtainable in unspliced lengths up to 20'. Must be curved at factory. Minimum radius: 6' (layout dependent).
Approximately: 2-1/4" wide x 2-1/2 high.

No. 3501 Nylon Ball-Bearing Single Carrier

1 – 5 oz.
Carrier spacing: 12". Block constructed of plated steel equipped with two nylon-tired ball-bearing wheels. Rubber bumper helps with noise suppression when curtain is opening. Carrier width: Approximately 1-1/2".

No. 3501-A Neoprene Ball-Bearing Single Carrier

1 - 5 oz.
Carrier spacing: 12"
Block constructed of plated steel equipped with 2 neoprene-tired ball-bearing wheels. Rubber bumper helps with noise suppression when curtain is opening.
Carrier width: Approximately 1-1/2".

No. 35[illegible] Master C[illegible]er

1 - 1 lb. 6[illegible]

Plated steel bl[illegible] eq[illegible]pe[illegible] with 4 nylon-tired ball-bea[illegible]ing [illegible]he[illegible]s, and cable clamp for tig[illegible]ening cable f[illegible]m outside of channel.

Carrier width: Approximately 4[illegible]2".

No. 3402 Master Carrier

1 - 10 oz.

Includes plated steel block with 2 nylon-tired ball-bearing wheels and cable clamp for tightening cord from outside of channel. Rubber bumper provides quiet operation.

Carrier width: Approximately 2-1/2".

No. 3525 Cord Connector used to splice cords adjacent to master carrier on hand-operated or motorized tracks.

No. 3439 Tandem Carrier

1 - 6 oz.

Placed on 12" centers behind master carriers. Number dependent on amount of overlap required. Composed of steel block and 2 nylon-tired ball-bearing wheels. Rubber bumper provides quiet operation.

For use only with Model 340 series tracks.

No. 3503 Live End Pulley

1 - 2 lbs. 15 oz.

Painted steel block equipped with 2 oil-impregnated sleeve-bearing nylon wheels. Attaches to track end. Extends 3-1/2" beyond track end.

Pulley width: Approximately 7-1/2".

No. 3504 Dead End Pulley

1 - 2 lbs. 6 oz.

Plated steel block equip[illegible]d [illegible]th oil-impregnated sleeve-bearing [illegible]on wheels. Attaches to end o[illegible]ack. Extends 3-1/2" beyond track.

Pulley width: Approximately 4-3/4".

No. 3403 Live End Pulley

1 - 1 lb. 11 oz.

Equipped with 2 oil-impregnated sleeve-bearing nylon wheels. Attaches to track end. Extends 2 - 1/4" beyond track end.

(Used with 340 series tracks only.)

No. 3404 Dead End Pulley

1 - 15 oz.

Painted steel block equipped with 1 oil-impregnated sleeve-bearing nylon wheel and 2 steel idler wheels Attaches to end of track. Extends 4-1/4" beyond track end.

(Used with 340 series track only.)

No. 3503-A Center Take Off Live End Pulley

1 – 3 lbs.

Designed to be used in installations where it is necessary to have the operating lines routed perpendicular to the tra[illegible]. When using this device, add 1 [illegible]ch [illegible]el 3504 Dead End Pulley. 3503 [illegible]mus[illegible]e located a minimum of 4' f[illegible]n[illegible] end of the track. Additional p[illegible]ys may be [illegible]ed to mule operating li[illegible]s to m[illegible]ine [illegible]floor pulley.

No. 3524 Splicing Clamp [Suspended Systems]

1 pr. - 2 lbs. 3 oz.

For joining track sections assuring proper alignment of track channels on suspended installations.

Approximately: 10" long x 2-1/2" wide x 2" high.

NOTE: Used with suspended tracks only.

DISCONTINUED

DISCONTINUED

No. 3524-A Ceiling Mounting Clamp

1 - 1 lb.

For joining track sections assuring proper alignment of track channels on ceiling-mounted installations.

Approximately: 6" long x 3-1/2" wide x 5/16" high.

NOTE: Used with ceiling mounted track only.

No. 3508 Hanging Clamp

1 pr. - 4-1/2 oz.

Recommended spacing: 5' with additional units in curves and stack areas. Pipe batten recommended with suspended track systems.

Approximately: 1-1/2" wide x 2" long x 2" high.

No. 3523 Ceiling Clamp

1 - 6 oz.

Recommended spacing: 5' with additional units in curves and stack areas. For use on ceiling-mounted installations only.

Approximately: 3-9/16" wide x 1-1/2" long.

No. 3509 End Stop

1 pr. - 4 oz.

Prevents carriers from moving beyond selected position in track. Used also as curtain tie-off at track ends.

Width: Approximately 1-1/2".

No. 3507 Lap Clamp

1 - 13 oz.

For securing double sectioned track at center overlap.

NOTE: For use with suspended hanging track systems only.

No. 2805 Adjustable Floor Pulley

1 - 3 lbs. 5 oz.

Painted steel side plates, equipped with 1 oil-impregnated sleeve-bearing nylon wheel. Locks in place via threaded axle. Adjustment – 9".

Approximately: 3-1/4" long x 5" wide x 13" high.

No. 3526-S Idler Bracket

1 - 6 oz.

Equipped with 1" steel ball-bearing wheel for guiding cord around the inside of the curve (used on Live-End half of the track system).

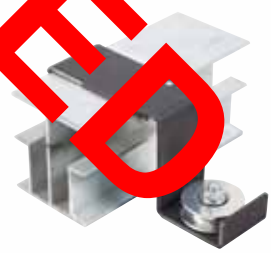
NOTE: For use with suspended track systems only.

No. 3526-C Ceiling Type Idler Bracket

1 - 6 oz.

Equipped with 1" steel ball-bearing wheel, used to guide cord around the inside of the curve (used on Live-End half of the track system).

NOTE: For use with ceiling mounted track systems only.



No. 3526-AC Idler Bracket

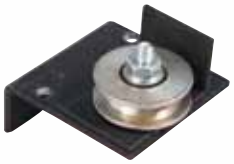
1 – 6 oz.

Equipped with 1' steel ball-bearing wheel, used to guide cord around the outside of the curve (used on Dead-End half of the track system).

NOTE: For use with ceiling mounted track systems only.

No. 3526-BS Steel Bracket

1 – 6 oz.
Equipped with 1" steel ball-bearing wheel, used to guide cord around the outside of the curve (used on Dead End half of the track system).
NOTE: For use with suspended track systems only.



No. 3561 Center Stop

1 - 8 oz.
End stop and idler combination for use only with 350 series tracks. Used at overlap on both track ends.

No. 3516 Cord Retainer

1 - 2-1/2 oz.
Plated steel body with locking screw. Installed on upper portion of No. 3500 channel on side opposite master carrier. Retains cord in runway.
For special applications only.

No. 3525 Cord Connector

1 - 1 oz.
Used to splice cords adjacent to master carrier. Nylon coated. For use with hand-operated or motorized tracks.

No. 3556 Track Straightening Tool

1 - 1 lb. 2 oz.
Extra accessory for smoothing out depressed areas of track walls.

No. 3529 Cable

100' - 2 lbs. 7 oz.
Wire center with woven polyester cover. For machine-operated tracks. Partially concealed in track runways. 3/16" (No. 6)

No. 2814 [BL] Pipe Clamp

1 pr. - 13 oz.
For 1-1/4" I.D. Schedule 40 pipe

No. 2815 [BL] Pipe Clamp

1 pr. - 16 oz.
For 1-1/2" I.D. Schedule 40 pipe

No. 2816 [BL] Pipe Clamp

1 pr. - 18 oz.
For 2" I.D. Schedule 40 pipe

DISCONTINUED

	Parts Included	420 TRIPL-I-TRAC® CWANA code					
		CORD OPERATED/MOTORIZED				WALK-ALONG	
		420	420-R	421	421-R	422	422-R
	STRAIGHT			√	√		
	CURVED	√	√			√	√
Single Carriers	4200	√		√		√	
	4237		√		√		√
Master Carriers	4252			√		√	
	4253		√		√		√
	4202	√	√				
Pulleys	4203	√					
	4204	√	√				
	2865	√	√				
Spindles & Idlers	4258	√	√				
	4259	√	√				
	4260	√	√				
Cord	1728	√	√				

*FOR MACHINE OPERATED TRACK SYSTEMS, REPLACE 1728 CORD WITH 3529 CABLE. DELETE THE 2865 FLOOR PULLEY.

DISCONTINUED

SPECIFICATIONS:

TRIPL-I-TRAC® Model 420 Curtain Tracks

Curtain tracks (Model 4200) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4201)** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 4203)** and Dead-End **(Model 4204)** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two End Stops **(Model 4209)** for placement at track ends and a tension Floor Pulley **(Model 2865)** for increasing cord tension. Track shall be rigidly supported from Ceiling Clamps **(Model 4223)** or Hanging Clamps **(Model 4208)**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. Curves require ball-bearing Spindles **(Models 4258 & 4259)** and ball-bearing Idlers **(Model 4260)**. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 420 as manufactured by Automatic Devices Company of Allentown, PA.

TRIPL-I-TRAC® Model 420-R Curtain Tracks

Curtain tracks (Model 4200) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4237)** shall be spaced on 12" centers and shall be of steel construction to include two solid nylon wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 4203)** and Dead-End **(Model 4204)** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two End Stops **(Model 4209)** for placement at track ends and a tension Floor Pulley **(Model 2865)** for increasing cord tension. Track shall be rigidly supported from ceiling clamps **(Model 4223)** or Hanging Clamps **(Model 4208)**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. Curves require ball-bearing Spindles **(Models 4258 & 4259)** and ball-bearing Idlers **(Model 4260)**. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 420-R as manufactured by Automatic Devices Company of Allentown, PA.

SPECIFICATIONS:

TRIPL-I-TRAC® Model 421 Curtain Tracks (Straight Track System)

Curtain tracks (Model 4200) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4201)** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 4203-B)** and Dead-End **(Model 4204)** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two End Stops **(Model 4209)** for placement at track ends and a tension Floor Pulley **(Model 2865)** for increasing cord tension. Track shall be rigidly supported from Ceiling Clamps **(Model 4223)** or Hanging Clamps **(Model 4208)**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 421 as manufactured by Automatic Devices Company of Allentown, PA.

TRIPL-I-TRAC® Model 421-R Curtain Tracks (Straight Track System)

Curtain tracks (Model 4200) shall be of 11 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4237)** shall be spaced on 12" centers and shall be of steel construction to include two solid nylon wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 4203-B)** and Dead-End **(Model 4204)** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Two rubber bumpers shall be attached to each carrier to function as noise reducers, a bumper to be placed on each of the two flanges at one side. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two End Stops **(Model 4209)** for placement at track ends and a tension Floor Pulley **(Model 2865)** for increasing cord tension. Track shall be rigidly supported from Ceiling Clamps **(Model 4223)** or Hanging Clamps **(Model 4208)**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. Curves require ball-bearing Spindles (Models 4258 & 4259) and ball-bearing Idlers (Model 4260). 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 421-R as manufactured by Automatic Devices Company of Allentown, PA.

TRIPL-I-TRAC® Model 422 Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 4200) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4201)** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. Track shall be rigidly supported from Ceiling Clamps **(Model 4223)** or Hanging Clamps **(Model 4208)**. 1-1/2" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks. The manufacturer shall furnish four End Stops **(Model 4209)** for placement at track ends.
Model 422 as manufactured by Automatic Devices Company of Allentown, PA.

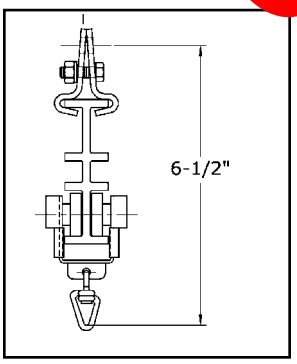
TRIPL-I-TRAC® Model 422-R Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 4200) shall be of 11 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4237)** shall be spaced on 12" centers and shall be of steel construction to include two nylon wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Two rubber bumpers shall be attached to each carrier to function as noise reducers, a bumper to be placed on each of the two flanges at one side. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. Track shall be rigidly supported from Ceiling Clamps **(Model 4223)** or Hanging Clamps **(Model 4208)**. Curves shall be formed on-the-job or at the factory. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 422-R as manufactured by Automatic Devices Company of Allentown, PA.

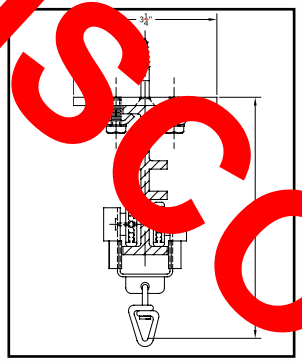
DISCONTINUED

Model 422 Assembly

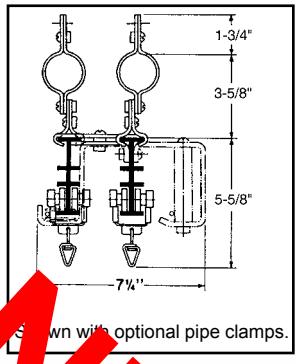
DISCONTINUED



Cross Section of 422 Suspended
Min. pocket width: 4 in.

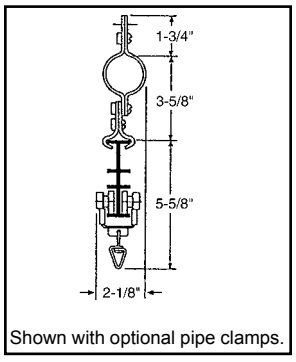


Cross Section of 422 Ceiling Mount
Min. pocket width: 4 in.



Shown with optional pipe clamps.

Cross Section of 420 Track at Ceiling Overlap Pipe Mounted
Min. pocket width: 8 in.



Shown with optional pipe clamps.

Cross Section of 422 Track Pipe Mounted
Min. pocket width: 4 in.

TRIPL-I-TRAC® MODEL 422

TRIPL-I-TRAC® is a heavy-duty I-beam track consisting of four flanges designed to support heavier-than-usual curtains. It is recommended for curtains too heavy for 140 series track systems used on stages, TV studios and gym divider installations.

Model 420 is used in corded curved applications and utilizes Spindle and Idler brackets (not included CWANA) for guiding the operating cord along curved areas. The track channel can be curved in the field with the use of a bending tool, or at the factory.

NOTE: Model 420 cannot be used for cord operated reverse curved or serpentine layouts.

Model 422 is used for walk-along applications where the operator walks the curtain open and closed. No cables, cords, or pulleys are used with this type of system. The track can be curved in the field with the use of a bending tool, or at the factory.

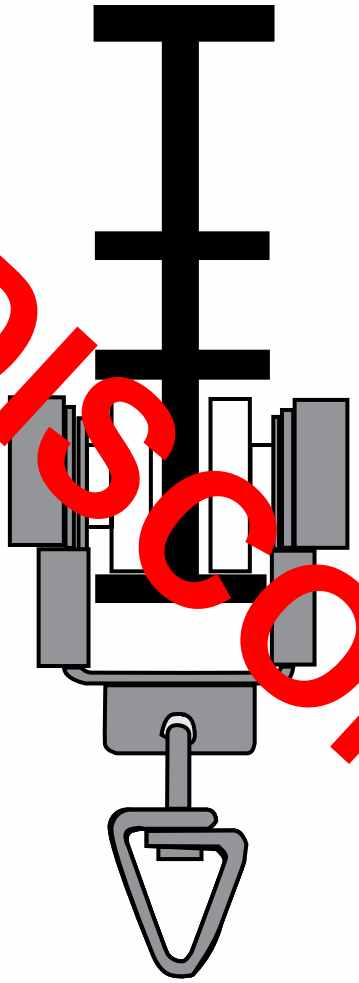
When ordering, advise whether the track is to be ceiling-mounted or suspended.

Manually-operated cord-drawn curved tracks require more effort to operate than straight tracks. Therefore, motorization should be considered especially when sharp curves or long runs are involved.

MODELS 420, 420-[illegible] 421-[illegible] AND 422-R

The above models a[illegible]ssen[illegible]y identical to their counterpart models for the 140 S[illegible]ries [illegible]scribed [illegible]page 48.

Important note: a scaled [illegible]awi[illegible]g or [illegible]late is required for the quotation and fabrication [illegible] cu[illegible]d track systems in order to determine the [illegible]cati[illegible] and [illegible]uantity of Splices, Spindles and Idlers.



Full Size End View

DISCONTINUED

No. 4200 [BL] Channel

1' - 1 lb. 8 oz.
7 gauge extruded aluminum, mill-finish (4200BL anodized black). Obtainable in unspliced lengths up to 20'. Curved on-the-job or at the factory (optional) to a 2' minimum radius (layout dependent). Flange above carrier prevents tilting of carrier.
Approximately: 1" wide x 3-3/8" high.

No. 4201 [BL] Single Carrier

1 - 4 oz.
Carrier spacing: 12". Plated steel block supported from 2 nylon-tired ball-bearing wheels. Snap-on nylon spacers reduce noise and friction.
Width: Approximately 1-3/8".

No. 1402 [BL] Master Carrier

1 – 11 oz.
Used with Model 420 track systems. Plated steel pivoting block assembly supported from 4 nylon-tired ball-bearing wheels. Snap-on nylon spacers reduce noise and friction. 2 cord connectors provided for clamping operating cord to carrier assembly.
Width: Approximately 4".

No. 4237 Single Carrier

1 - 3 oz.
Carrier spacing: 12". Plated steel block supported from 2 solid nylon wheels. Snap-on nylon spacers reduce noise and friction.
Width: Approximately 1-3/8".

No. 4252 [BL] Walk-Along Master Carrier

1 - 8.5 oz.
Used with Models 422 and 142 tracks. Plated steel pivoting block assembly supported from 4 nylon-tired ball-bearing wheels. Snap-on nylon spacers reduce noise and friction.
Width: Approximately 3".

DISCONTINUED

No. 4253 [BL] Walk-Aloo[illegible]aster Ca[illegible]er

1 – 7 oz.

Used with Models 422-R an[illegible]42-[illegible] tracks. Plated steel pivoting bl[illegible]t asser[illegible]bly supported from 4 solid nylon w[illegible]eels. Snap-on nylon spacers reduce nois[illegible]and friction.

Width: Approximately 3".

No. 4203 Live End Pulley

1 – 1 lb. 15 oz.

Equipped with 2 oil-impregnated sleeve-bearing nylon wheels. Attaches to the end of the 4200 track.

Pulley width: Approximately 7".

No. 4203-B Live End Pulley

1 - 2 lbs. 4 oz.

Used with straight track systems only. (Models 421 and 421-R). Painted steel construction with 2 oil-impregnated sleeve bearing nylon wheels.

Pulley width: Approximately 3-1/4".

No. 4204 Dead End Pulley

1 – 1 lb. 4 oz.

Painted steel construction equipped with [illegible] oil-impregnated sleeve-bearing nylon wheel. Attaches to the end of the 4200 tra[illegible]

[illegible]ley w[illegible]h: Approximately 5-1/4".

No. 4224 [BL] Splicing Clamp

1 pr. - 12 oz.

Lock plate for joining track sectio[illegible] assuring proper vertical and hori[illegible]tal track alignment.

Approximately: 8-1/4" long x 1" wide.

NOTE: Track must be straight at splices.

No. 4208 [BL] Hanging Clamp

1 pr. - 2-1/2 oz.

Recommended spacing: 4' with additional units in curve and stack areas. Pipe batten recommended for suspended curved tracks.

Plated steel construction.

Approximately: 1-1/4" wide x 1-3/16" long x 2-1/8" high.

No. 1423 [BL] Ceiling Clamp

1 – 6 oz.

Used to attach track directly to overhead structure. Recommended spacing 5' with additional units in curve and stack areas.

Approximately: 3-1/4" wide x 1-1/2" long x 3/16" high

[illegible] 4209 [BL] End Stop

[illegible]pr. [illegible]1/2 oz.

[illegible]de[illegible]ical t[illegible] No. 4208 except installed in [illegible]erte[illegible]osition at bottom of channel. [illegible]Prev[illegible]s carrie[illegible] from moving beyond sele[illegible]ed pos[illegible]n in track.

Cannot [illegible]be us[illegible] with [illegible]Rotodrapers®. Proper har[illegible]are [illegible]is supplied with Rotodrapers®.

No. 4260-A [BL] Idler

1 – 10 oz.

Used at the overlap of continuously curved bi-parting systems to prevent cord from rubbing against end of tracks.

No. 4207 [BL] Lap Clamp

1 – 6 oz.

For securing double-sectioned track at center overlap. Used with curved operated track suspended systems that are straight at the overlap.

Note: 2 required, sold individually.

No. 4207-A [BL] Lap Clamp

1 – 8 oz

For use with continuously curved chord operated suspended track systems. Provides wider track spacing at overlap.

Note: 2 required, sold individually.

No. 4258 [BL] Spindle A

1 – 1 lb.

Used to help guide the operating lines around the track curve. Used on inside of radius on Live-End half of track system. Spacing and quantity dependent on degree and radius of curve.

Not included with CWANA systems. Must be ordered separately.

No. 4259 [BL] Spindle B

1 – 13 oz.

Used to help guide the operating lines around the track curve. Used on inside of radius on Dead-End half of track system. Spacing and quantity dependent on degree and radius of curve.

Not included with CWANA systems. Must be ordered separately.

No. 4260 [BL] Idler

1 – 10 oz.

Used to help guide the operating lines around the track curve. Used on outside of radius on Dead-End half of track system. Spacing and quantity dependent on degree and radius of curve.

Not included with CWANA systems. Must be ordered separately.

No. 1713 [BL] Pipe Clamp

1 pr. - 5.5 oz.

For 1” I.D. Schedule 40 pipe

No. 1714 [BL] Pipe Clamp

1 pr. - 7 oz.

For 1-1/4” I.D. Schedule 40 pipe

No. 1715 [BL] Pipe Clamp

1 pr. - 7 oz.

For 1-1/2” I.D. Schedule 40 pipe

DISCONTINUED

DISCONTINUED

No. BT-1 Bending Tool
1 - 19 lbs. 4 oz.
48" long x 15" wide x 9" high.
For use with Models 1300, 1400 & 4200 tracks.
See page 81 for description of use.

No. 1728 Cord
100' - 2 lbs. 4 oz.
Synthetic center and stretch-resistant.
For manually-operated tracks.
1/4" (No. 8)

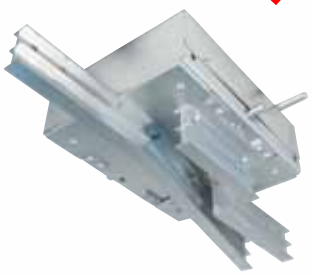
No. 3529 Cable
100' - 2 lbs. 7 oz.
Wire center with woven polyester cover.
Used with drum-drive machines.
3/16" (No. 6)

Need a Rotodraper® for a 420 track system?

The Model 14 and 14A Rotodraper® is designed to work on 4200 track as well as 1400 track.

Need a Switching Device for a 420 Track System?

We offer both motorized and manual 2-way track switches and fan switches with up to a 5 to 1 configuration for the Model 4200 track.



Please see page 77 for more information on these track switches.

No. 1478 (BL) Suspension Strap
1 – 2 oz.
Used with Model 4208 Hanging Clamp (not included) and pipe clamp (also not included) to attach track to parallel overhead pipe batten.
Strap length 4".

No. 1481 (BL) Twist Strap
1 – 2 oz.
Used with Model 4208 hanging clamp (not included) and pipe clamp (also not included) to attach track to perpendicular overhead pipe batten.
Strap length 4"

No. 1478-A (BL) Suspension Strap
1 – 2 oz.
Used with Model 4208 hanging clamp (not included) to attach track to parallel overhead pipe batten.
Strap length 6" from bottom of pipe.
Model 1478-AL available with 8" strap length.

No. 1481-A (BL) Twist Strap
1 – 2 oz.
Used with Model 4208 hanging clamp (not included) to attach track to perpendicular overhead pipe batten.
Strap length 6" from bottom of pipe.
Model 1481-AL available with 8" strap length.

	Parts Included	140 RIG-I-FLEX® CWANA code					
		CORD OPERATED/MOTORIZED				WALK-ALONG	
		140 (240)	140-R (240-R)	141 (241)	141-R (241-R)	142 (242)	142-R (242-R)
	STRAIGHT			√	√	√	√
	CURVED	√	√				
Single Carriers	4201 (BL)	√		√		√	
	4237 (BL)		√		√		√
Master Carriers	1438 (BL)			√	√		
	1402 (BL)	√	√				
	4252 (BL)					√	
	4253						√
Pulleys	1403	√	√				
	1403-B			√	√		
	1404	√	√	√	√		
	2865 (BL)	√	√	√	√		
Spindles & Idlers	1458 (BL)	√	√				
	1459 (BL)	√	√				
	1460 (BL)	√	√				
Cord	1728	√	√	√	√		

BL = Black Finish
2XX Series Track Systems have a black finish.

SPECIFICATIONS:

RIG-I-FLEX® Model 140 (240) Curtain Tracks

Curtain tracks Model 1400(1400BL) shall be of 11 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4201(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-end **(Model 1403)** and Dead-end **(Model 1404)** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two end stops **(Model 4209(BL))** for placement at track ends and a tension floor pulley **(Model 2865(BL))** for increasing cord tension. Track shall be rigidly supported from ceiling clamps **(Model 1423(BL))** or hanging clamps **(Model 4208(BL))**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. Curves require ball-bearing spindles **(Models 1458(BL) & 1459(BL))** and ball-bearing idlers **(Model 1460(BL))**. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 140(240) as manufactured by Automatic Devices Company of Allentown, PA.

RIG-I-FLEX® Model 140-R (240-R) Curtain Tracks

Curtain tracks Model 1400(1400BL) shall be of 11 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4237(BL))** shall be spaced on 12" centers and shall be of steel construction to include two solid nylon wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-end **(Model 1403)** and Dead-end **(Model 1404)** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two end stops **(Model 4209(BL))** for placement at track ends and a tension floor pulley (**Model 2865(BL))** for increasing cord tension. Track shall be rigidly supported from ceiling clamps **(Model 1423(BL))** or hanging clamps **(Model 4208(BL))**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. Curves require ball-bearing spindles **(Models 1458(BL) & 1459(BL))** and ball-bearing idlers **(Model 1460(BL))**. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 140-R(240-R) as manufactured by Automatic Devices Company of Allentown, PA.

SPECIFICATIONS:

RIG-I-FLEX® Model 141 (241) Curtain Tracks (Straight Track System)

Curtain tracks (Model 1400(BL)) shall be of 11 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4201(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-end **(Model 1403-B(BL))** and Dead-end **(Model 1404(BL))** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two end stops **(Model 4209(BL))** for placement at track ends and a tension floor pulley **(Model 2865(BL))** for increasing cord tension. Track shall be rigidly supported from ceiling clamps **(Model 1423(BL))** or hanging clamps **(Model 4208(BL))**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support all areas of all suspended curved tracks.
Model 141(241) as manufactured by Automatic Devices Company of Allentown, PA.

RIG-I-FLEX® Model 141-R (241-R) Curtain Tracks (Straight Track System)

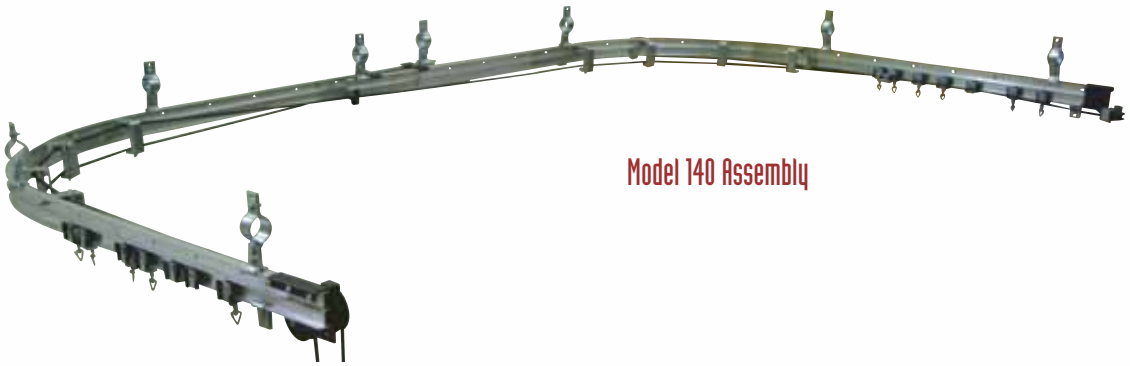
Curtain tracks (Model 1400(BL)) shall be of 11 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4237(BL))** shall be spaced on 12" centers and shall be of steel construction to include two solid nylon wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-end **(Model 1403-B(BL))** and Dead-end **(Model 1404)** pulley blocks shall be equipped with sleeve-bearing wheels adequately guarded. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. The manufacturer shall furnish two end stops **(Model 4209(BL))** for placement at track ends and a tension floor pulley **(Model 2865(BL))** for increasing cord tension. Track shall be rigidly supported from ceiling clamps **(Model 1423(BL))** or hanging clamps **(Model 4208(BL))**. Stretch-resistant operating cord (Model 1728 for hand operating tracks and Model 3529 for machine operated tracks) shall have synthetic or wire center and shall be of 1/4" or 3/16" diameter. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support all areas of all suspended curved tracks.
Model 141-R(241-R) as manufactured by Automatic Devices Company of Allentown, PA.

RIG-I-FLEX® Model 142 (242) Curtain Tracks (Walk-Along Track System)

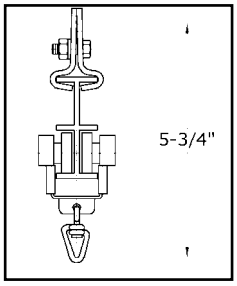
Curtain tracks (Model 1400(BL)) shall be of 11 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4201(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. Track shall be rigidly supported from ceiling clamps **(Model 1423(BL))** or hanging clamps **(Model 4208(BL))**. Curves shall be formed on-the-job or at the factory. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 142(242) as manufactured by Automatic Devices Company of Allentown, PA.

RIG-I-FLEX® Model 142-R (242-R) Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 1400(BL)) shall be of 11 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 4237(BL))** shall be spaced on 12" centers and shall be of steel construction to include two solid nylon wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Nylon snap-on spacers shall be attached to wheel supports of curtain carriers. Track shall be rigidly supported from ceiling clamps **(Model 1423(BL))** or hanging clamps **(Model 4208(BL))**. Curves shall be formed on-the-job or at the factory. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 142-R(242-R) as manufactured by Automatic Devices Company of Allentown, PA.

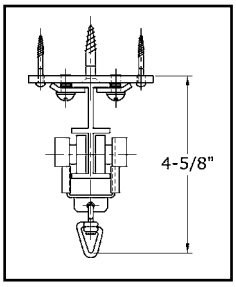


Model 140 Assembly



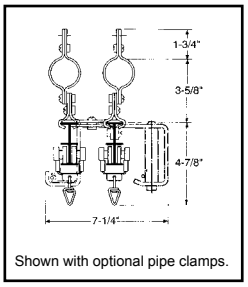
Cross Section of 142 Suspended

Min. pocket width: 3 in.



Cross Section of 142 Ceiling Mount

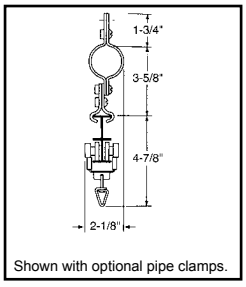
Min. pocket width: 4 in.



Shown with optional pipe clamps.

Cross Section of 140 Track at Center Overlap Pipe Mounted

Min. pocket width: 8 in.



Shown with optional pipe clamps.

Cross Section of 142 Track Pipe Mounted

Min. pocket width: 3 in.

RIG-I-FLEX® MODEL 140 (240)

RIG-I-FLEX is a versatile I-beam track which has been engineered for both curved (Model 140 (240)) and straight (Model 141 (241)) cord operated systems as well as for "walk-along" (Model 142 (242)) systems. It was designed for medium weight curtains on stages and TV studios and for enclosing areas in industrial plants. **Overall track length for cord operated systems should not exceed 60' for biparts or 40' for one-way draws.**

Model 140(240) utilizes spindles and idler brackets (NOT INCLUDED IN CWANA PRICING) for guiding the operating cord along the curved areas. The track can be curved on-the-job or at the factory (optional).

Manually operated cord-drawn curved tracks require more effort than straight tracks. Therefore, motorized systems should be used, especially where sharp curves are involved.

NOTE: track can be curved to a 2' minimum radius for curves up to 90 degrees. For systems with curves greater than 90 degrees or systems with multiple curves, please contact the factory.

Track must be solidly anchored to an overhead structure with ceiling clamps. Pipe backbones are recommended for suspended systems.

This track cannot be used for cord operated reverse curved or serpentine layouts.

MODEL 140-R (240-R)

Model 140-R(240-R) is identical to Model 140(240) except that No. 4237(BL) Single Carriers and No. 1438(BL) Master Carriers are used instead of No. 4201(BL) and No. 1402(BL).

MODELS 141 AND 141-R (241 AND 241-R)

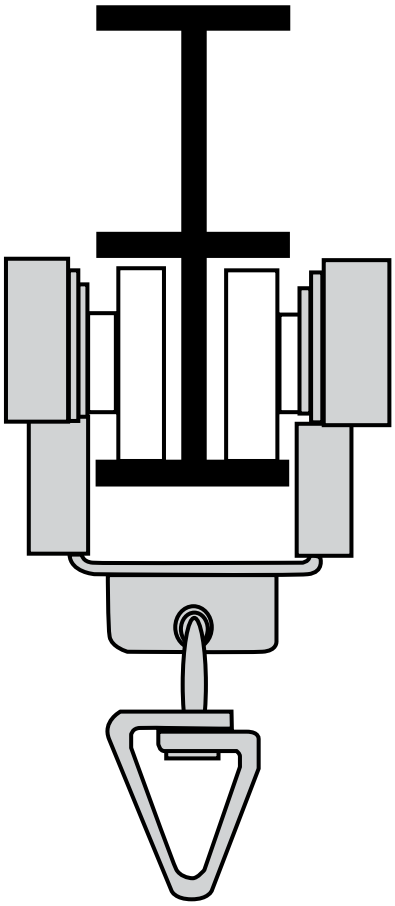
Model 141 is identical to Model 140(240) except that it is ENTIRELY STRAIGHT IN LAYOUT and No. 1403-B(BL) Live-End Pulley is used instead of No. 1403. Model 141-R(241-R) is identical to Model 141(241) except that No. 4237(BL) Single Carriers and No. 1438(BL) Master Carriers are used.

MODELS 142 AND 142-R (242 AND 242-R)

Model 142(242) is recommended for stage and TV studio cyclorama installations where it is necessary that the operator walk the curtain to its opened and closed positions. The track is curved on-the-job and can be bent to a minimum radius of 2' (layout dependent). No cord or pulleys are supplied with "walk-along" tracks. Model 4252(BL) Master Carriers are used with the systems.

Model 142-R(242-R) is identical to Model 142(242) except that No. 4237(BL) Single Carriers and No. 4253(BL) Master Carriers are used.

A scaled drawing or template must accompany each inquiry or order for model 140(240) RIG-I-FLEX® curved tracks. Drawings are required so that the correct number of spindles and idler brackets can be quoted or supplied. When ordering, advise whether the track is to be ceiling mounted or suspended.



Full Size End View

No. 1400 [BL] Channel

1 - 10 oz.
11 gauge extruded aluminum, mill-finish or anodized black finish [BL Models]. Obtainable in unspliced lengths up to 20'. May be curved on the job to recommended minimum radius of 2' (layout dependent). Center flange prevents tilting of carrier.
Approximately: 1" wide x 2-1/2" high.

No. 4201 [BL] Single Carrier

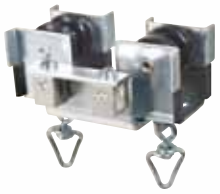
1 - 4 oz.
Used with models 140(240), 141(241). Carrier spacing: 12". Block constructed of plated steel supported from 2 nylon-tired ball-bearing wheels. Snap-on nylon spacers reduce noise and friction. Plated swivel for free, effortless curtain movement. Carrier width: Approximately 1-3/8".

No. 1402 [BL] Master Carrier

1 - 11 oz.
Used with Model 140 and 141 systems. Pivoting block assembly constructed of plated steel supported from 4 nylon-tired ball-bearing wheels. Snap-on nylon spacers reduce noise and friction.
Two cord connectors provided for clamping cord to carrier.
Carrier width: Approximately 3-1/4".

No. 4237 [BL] Single Carrier

1 - 3 oz.
Used on Model 140-R, 141-R and 142-R. Carrier spacing: 12". Same construction as No. 4201 except equipped with 2 solid nylon wheels.
Carrier width: Approximately 1-3/8".



No. 1438 [BL] Master Carrier

1 – 10.5 oz.
Used with Model 140-R and 141-R tracks. Pivoting block assembly constructed of plated steel supported from 4 solid nylon wheels. Snap-on nylon spacers reduce noise and friction.
Two cord connectors provided for clamping cord to carrier.
Carrier width: Approximately 3-1/4".

No. 4252 [BL] Walk-Along Master Carrier

1 - 8 oz.
Used with Models 422 and 142 tracks. Pivoting block assembly constructed of plated steel supported from 4 nylon-tired ball-bearing wheels. Snap-on nylon spacers reduce noise and friction.
Carrier width: Approximately 3".

No. 4253 Walk-Along Master Carrier

1 – 8 oz.
Used with Models 422-R and 142-R tracks. Pivoting block assembly constructed of plated steel supported from 4 solid nylon wheels. Snap-on nylon spacers reduce noise and friction.
Carrier width: Approximately 3".

1402A MASTER CARRIER WITH OVERLAP ARM

1 - 12 oz

Master carrier with extension arm to allow curtains to overlap without overlapping the tracks at center. Fixed overlap 1' in front of 1'. Swivels spaced 6" on center.

Model 4252A available for walk-along operation.

Dimensions: 15-1/2" L x 3-1/4" W

No. 4251 Scenery Carrier

1 – 1 lb. 5 oz.

Used to traverse medium weight scenery panels. Normally used in pairs on a single panel. Maximum panel weight (2 carriers per panel) is 30 pounds.

Approximately: 4-3/8" long x 4-7/8" high x 1-1/2" wide.

No. 1403 Live End Pulley

1 - 1 lb. 12 oz.

Painted steel construction, equipped with 2 oil-impregnated sleeve-bearing nylon wheels. Anchored to track end, no drilling required.

Pulley width: Approximately 7".

No. 1403-B Live End Pulley

1 - 1 lb. 14 oz.

Used with straight track systems (Models 141 and 141-R). Same construction and components as 1403.

Pulley width: Approximately 3-1/4".

No. 1404 Dead End Pulley

1 - 1 lb. 1 oz.

Painted steel construction, equipped with 1 oil-impregnated sleeve-bearing nylon wheel. Anchors to track end. No drilling required.

Pulley width: Approximately 5-1/4".

No. 1404-A Dead End Pulley

1 – 1 lb. 1 oz.

Dead end pulley used with one-way draw applications. Painted steel construction, equipped with 1 oil-impregnated sleeve-bearing nylon wheel.

Pulley width: 2-13/16".

No. 1403-F Flying Live End Pulley

1 – 2 lbs.

Used when track is operated by a flying type machine. Pulley routes operating lines 180 degrees and parallel above track, to the track-mounted flying machine.

Pulley width: 2-1/4".

No. 1403-A Center Take Off Live End Pulley

1 – 3 lbs.

Used when the operating lines need to be routed perpendicular to the track.

NOTE: You must order an additional 1404 Dead-End pulley and MB-3 mule block when using this device. Additional pulleys may be needed to mule the operating line to the machine or floor pulley.

No. 4224 (BL) Splicing Clamp

1 pr. - 11 oz.

Lock plate for joining track sections assuring proper vertical and horizontal track alignment. Track must be straight at splices.

Approximately: 8-1/4" long x 1" wide.

No. 4208 [BL] Hanging Clamp

1 pr. - 2-1/2 oz.
Recommended spacing: 4' with additional units at curves and in stack areas. Pipe batten recommended for suspended curved tracks.
Approximately: 1-1/4" wide x 1-3/16" long x 2-1/8" high.

No. 1408-A [BL] Threaded Rod

1 – 4 oz.
Used with Model 4208 Hanging Clamp (not included). Provides a 3/8" hole parallel with the ceiling (perpendicular to the mounting hole of the 4208).
Approximately: 1-1/4" x 1-3/4" x 2-3/8".
Can be used with 2808, 1708, 4208 clamps.

No. 1423 [BL] Ceiling Clamp

1 - 6 oz.
Recommended spacing: 5' with additional units added at curves and in stack areas. For use on ceiling-mounted installations. Adjustable to any location. Top plate can be mounted first, with the track clips added as the channel is installed.
Approximately: 3-1/4" wide x 1-1/2"long.

No. 1482 Double Track Hanger

1 – 20 oz.
Used to mount 2 tracks, parallel with each other when the tracks are suspended. Standard track separation is 6" center to center (NOTE: fabric will rub if 2 stacked curtains pass). Painted steel construction with 3 holes for attaching suspension hardware (not included).
Approximately: 10" long x 1-1/2" high x 1-1/2" deep.

DISCONTINUED

No. 1483 Double Track Wall Bracket

1 – 2 lbs. 4 oz.
Used to mount 2 tracks parallel with each other, to side walls. Standard track separation is 6" center to center (NOTE: fabric will rub if 2 stacked curtains pass). Projection of track closest to the wall is 6" (to center of track). Painted steel construction with 3 mounting holes on vertical leg.
Approximately: 13-1/2" long x 9" high x 1-1/2" deep.
Also available in a single track version, Model 1483S.

No. 1407 Lap Clamp

1 - 7 oz.
For securing double-sectioned track at center overlap. Suspended systems only.
Approximately: 4" wide x 1-1/2" long x 3/8" deep.
Note: 2 required, sold individually.

No. 1407-A Lap Clamp

1 – 7 oz.
For use with continuously curved track systems. Provides wider track spacing in the overlap. Suspended systems only.
Approximately: 6" wide x 1-1/2" long x 3/8" deep.
Note: 2 required, sold individually.

No. 1409 End Stop

1 - 2 oz.
Prevents carriers from moving beyond selected position in track. Used also as cord guide.
Approximately 1-3/8".

Cannot be used with Rotodrapers®. Proper hardware supplied with Rotodrapers®.

No. 4209 [BL] End Stop

1pr – 2 oz.
Identical to 4208 except installed in inverted position at bottom of channel. Used with track Models 142 & 142-R.

Cannot be used with Rotodrapers®. Proper hardware supplied with Rotodrapers®.

No. 1458 (BL) Spindle A

1 - 14 oz.

Consists of steel tubing equipped with 2 ball-bearings. Used for guiding cord around curves. Also has ball-bearing wheel for guiding return cord. Always placed on Live-End half of track on inside of curve. Minimum pocket width to accommodate spindles and idlers: Approximately 8".

Not included with CWANA systems. Must be ordered separately.

No. 1459 (BL) Spindle B

1 - 12 oz.

Same as No. 1458 but without ball-bearing wheel. Always placed on Dead-End half of track on inside of curve. Minimum pocket width to accommodate spindles and idlers: Approximately 8".

Not included with CWANA systems. Must be ordered separately.

No. 1460 (BL) Idler Bracket

1 - 10 oz.

Bracket includes ball-bearing wheel for guiding cord around curve.

Always placed on the Dead-End half of the track on outside of curve.

Not included with CWANA systems. Must be ordered separately.

No. 1460-A (BL)

Used only at the overlap for track systems with a continuous radius.

Not included with CWANA systems. Must be ordered separately.

No. 1478 (BL) Suspension Strap

1 – 2 oz.

Used with Model 4208 Hanging Clamp (not included) and pipe clamp (also not included) to attach track to parallel overhead pipe batten.

Strap length 4".

No. 1481 (BL) Twist Strap

1 – 2 oz.

Used with Model 4208 hanging clamp (not included) and pipe clamp (also not included) to attach track to perpendicular overhead pipe batten.

Strap length 4”

No. 1478-A (BL) Suspension Strap

1 pr. – 2 oz.

Used to with Model 4208 hanging clamp (not included) to attach track to parallel overhead pipe batten.

Strap length 6" from bottom of pipe. Model 1478-AL available with 8" strap length.

No. 1481-A (BL) Twist Strap

1 – 2 oz.

Used with Model 4208 hanging clamp (not included) to attach track to perpendicular overhead pipe batten.

Strap length 6" from bottom of pipe.

Model 1481-AL available with 8" strap length.

No. 2865 (BL) Tension Floor Pulley

1 - 2 lbs.

Plated steel construction, equipped with 1 oil-impregnated sleeve-bearing nylon wheel. Tension spring provides cord tension. Can be either wall or floor mounted. Spring-loaded latch maintains wheel in uppermost position during cording.

Approximately: 1-1/2" long x 3-1/2" wide x 13" high.

No. BT-1 Bending Tool
1 - 19 lbs. 4 oz.
For use with Models 1300, 1400 & 4200 tracks.
See page 81 for description of use.
Approximately: 48" long x 15" wide x 9" high.

No. BT-2 Bending Tool
1 - 4 lbs. 14 oz.
For use with Models 1300 & 1400 only.
See page 81 for description of use.
Approximately: 7-1/2" long x 9-1/2" wide x 3-1/2" high.

No. 1728 Cord
100' - 2 lbs. 4 oz.
Synthetic center and stretch-resistant.
For manually-operated tracks.
1/4" (No. 8)

No. 3529 Cable
100' - 2 lbs. 7 oz.
Wire center with woven polyester cover.
Used with drum-drive machines.
3/16" (No. 6)

No. 1713 Pipe Clamp
1 pr. - 5 oz.
For 1" I.D. Schedule 40 pipe

No. 1714 Pipe Clamp
1 pr. - 7 oz.
For 1-1/4" I.D. Schedule 40 pipe

No. 1715 Pipe Clamp
1 pr. - 8 oz.
For 1-1/2" I.D. Schedule 40 pipe

Need additional flexibility?
Consider adding a Rotodraper® to your track system.

No. 14 Rotodraper®
1 - 4-1/2 lbs.
For use with 1400 and 4200 track. Brackets formed of 11 gauge steel. Can support 75 lbs. maximum weight. Two Pipe Clamps supplied (clamps for 1" pipe standard). Two No. 400-C Clamps provided for connecting towlines.

Outfitting a TV or Photo Studio?
Don't forget about our full line of track switches. Track switches make it easy to change backdrops, scenery panels, fabric and chromakey colors. You can "park" the various drops on side tracks and bring them onto the main track as needed.
Refer to page 76-78 for additional information.

2-Way Switcher-I®

Parallel Switch PTS-2

5-Way Switcher

		FLEX-I-TRAC® CWANA code			
		132	132-A	132-B	132-C
Single Carriers	1301	√			
	1301-A		√		
	1337			√	
	1337-A				√
Master Carrier	1352				Optional
	1302	Optional	Optional	Optional	Optional
Splice	1324	√	√	√	√
End Stop	1309	√	√	√	√

SPECIFICATIONS:

FLEX-I-TRAC® Model 132 Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 1300) shall be of 13 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 1301)** shall be spaced on 12" centers and shall be of stiff wire construction supported from two self-lubricating nylon wheels rolling on two parallel treads. Track shall be rigidly supported from ceiling clamps **(Model 1423)** or hanging clamps **(Model 1308)**. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 132 as manufactured by Automatic Devices Company of Allentown, PA.

FLEX-I-TRAC® Model 132-A Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 1300) shall be of 13 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 1301-A)** shall be spaced on 12" centers and shall be supported from two self-lubricating nylon wheels rolling on two parallel treads. Track shall be rigidly supported from ceiling clamps **(Model 1423)** or hanging clamps **(Model 1308)**. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 132-A as manufactured by Automatic Devices Company of Allentown, PA.

FLEX-I-TRAC® Model 132-B Curtain Tracks (Walk-Along Track System)

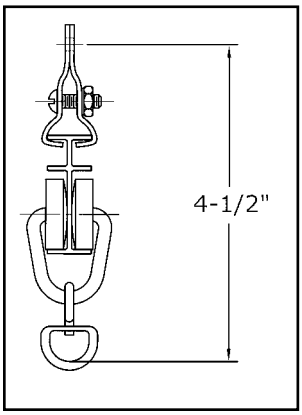
Curtain tracks (Model 1300) shall be of 13 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 1337)** shall be spaced on 12" centers and shall be of stiff wire construction supported from two self-lubricating ball bearing nylon wheels rolling on two parallel treads. Track shall be rigidly supported from ceiling clamps **(Model 1423)** or hanging clamps **(Model 1308)**. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 132-B as manufactured by Automatic Devices Company of Allentown, PA.

FLEX-I-TRAC® Model 132-C Curtain Tracks (Walk-Along Track System)

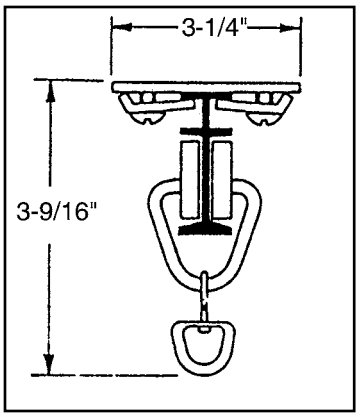
Curtain tracks (Model 1300) shall be of 13 gauge extruded aluminum I-Beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 1337-A)** shall be spaced on 12" centers and shall be supported from two self-lubricating ball bearing nylon wheels rolling on two parallel treads. Track shall be rigidly supported from ceiling clamps **(Model 1423)** or hanging clamps **(Model 1308)**. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks.
Model 132-C as manufactured by Automatic Devices Company of Allentown, PA.

Model 132 Assembly

Cross Section
of 132 Track Suspended
Min. pocket width: 2 in.



Cross Section
of 132 Track Ceiling Mount
Min. pocket width: 4 in.



FLEX-I-TRAC® MODEL 132

FLEX-I-TRAC is a light-to-medium duty cyclorama I-beam type track designed for light to medium weight stage and TV studio curtains, hospital cubicle curtains, and for enclosing industrial welding booths. This economically priced track is supplied for "walk-along" operation only with no cord, pulleys or master carriers. The track can be curved on-the-job (or at the factory) to virtually any degree on a 2' minimum radius. The track should be solidly anchored to the ceiling with the use of ceiling clamps or suspended from a pipe backbone.

When ordering, advise whether the track is to be ceiling-mounted or suspended.

MODEL 132

Model 132 features the No. 1301 non ball-bearing nylon tired single carriers.

MODEL 132-A

Same as Model 132 except Model 132-A features the No. 1301-A non ball-bearing nylon single carriers with bumper style body.

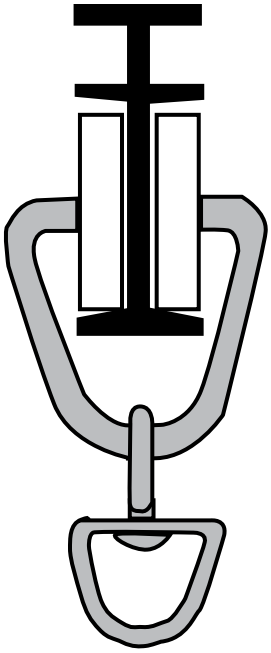
MODEL 132-B

Same as Model 132 except Model 1337 ball-bearing equipped nylon tired single carriers.

MODEL 132-C

Same as Model 132 except Model 1337-A ball-bearing nylon tired single carriers with bumper style body.

A scaled drawing or template must accompany each inquiry or order for model 132 Flex-I-Trac® if the track is to be factory curved.



Full Size End View
(1301 carrier shown)

No. 1300 Channel

1' - 4 oz.
13 gauge extruded aluminum, mill-finish. Obtainable in unspliced lengths up to 20'. Curved on the job or at the factory (optional) to a 2' minimum radius (layout dependent). Flange above carrier prevents tilting or climbing of carrier. Approximately: 5/8" wide x 1-11/16" high.

No. 1301 Carrier

4 - 3 oz.
Carrier spacing: 12". Constructed of plated steel wire supported from 2 solid nylon wheels. Plated swivel for free, effortless curtain movement.
Carrier width: Approximately 1".

No. 1337 Nylon Ball-Bearing Single Carrier

1 - 1-1/2 oz.
Carrier spacing: 12". Constructed of plated steel wire supported from 2 nylon-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement.
Carrier width: Approximately 1".

No. 1301-A Single Carrier

1 - 2 oz.
Carrier spacing: 12". Block constructed of plated steel supported from 2 solid nylon wheels. Plated swivel for free, effortless curtain movement. Block provides "bumper-to-bumper" action.
Carrier width: Approximately 1-1/8".

No. 1337-A Nylon Ball-Bearing Single Carrier

1 - 3 oz.
Carrier spacing: 12". Steel block supported from 2 nylon-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement. Block provides "bumper-to-bumper" action.
Carrier width: Approximately 1-1/8".

No. 1302 Master Carrier (Optional)

1 - 12 oz.
Walk-along master carrier with overlapping arm. Body constructed of painted steel with 4 nylon-tired ball-bearing wheels. Arm provides 12" of curtain overlap per carrier. (6" in front of 6")

No. 1324 Splicing Clamp

1 - 1 oz.
For both ceiling and suspended installations. Lock plate for joining track sections assures proper alignment.
NOTE: Track can not be curved at splice.
Approximately: 4" long x 5/16" wide x 5/16" high.

No. 1308 Hanging Clamp

1 pr. - 1 oz.
Recommended spacing: 4' with additional units in curves and stack areas. Adjustable to any location. Pipe batten and pipe clamps recommended for suspended curved track systems.
Approximately: 3/4" wide x 3/4" long x 1-3/4" high.

No. 1423 Ceiling Clamp (Shown on 1400 Track)

1 - 6 oz.
Recommended spacing: 5' with additional units added at curves and in stack areas. For use on ceiling-mounted installations. Adjustable to any location. Top plate can be mounted first, and clips installed when track is lifted into place
Approximately: 3-1/4" wide x 1-1/2" long.

No. 1309 End Stop

4 - 1 oz.
Prevents carriers from moving beyond selected position in track.

No. BT-1 Bending Tool

1 - 19 lbs. 4 oz.
Approximately: 48" long x 15" wide x 9" high.
For use with Models 1300, 1400 & 4200 tracks.
See page 81 for description of use.

No. BT-2 Bending Tool

1 - 4 lbs. 14 oz.
For use with Models 1300 & 1400 only.
See page 81 for description of use.
Approximately: 7-1/2" long x 9-1/2" wide x 3-1/2" high.

No. 1713 Pipe Clamp

1 pr. - 5 oz.
For 1" I.D. Schedule 40 pipe

No. 1714 Pipe Clamp

1 pr. - 7 oz.
For 1-1/4" I.D. Schedule 40 pipe

No. 1715 Pipe Clamp

1 pr. - 8 oz.
For 1-1/2" I.D. Schedule 40 pipe

	Parts Included	220 TRAK-EZE® CWANA code			
		CORD OPERATED /MOTORIZED		WALK-ALONG	
		220	220N	224	224N
Single Carriers	1701	√		√	
	2201		√		√
Master Carriers	2202	√		√	
	2202B		√		√
Tandem Carriers	2202-T	√		√	
	2202-BT		√		√
Pulleys	2203	√	√		
	2204	√	√		
	1145	√	√		
Splice	2224	√	√	√	√
End Stop	2209	√	√	√	√
Cord	2160	√	√		

NOTE: For motorized tracks:
1. Delete 2165 floor pulley
2. Replace 2160 cord with 3529 cable

SPECIFICATIONS:

Model 220 TRAK-EZE®

Curtain tracks shall be of 16 gauge extruded aluminum construction, anodized finish, entirely enclosed except for slot in the bottom, and in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1701)** shall be placed on 6" centers and shall be of plated steel construction with two polyethylene wheels held to block by plated steel rivet, such wheels rolling on two separate parallel treads. Track design shall provide a 12" center overlap. End pulley blocks shall be equipped with steel sheaves adequately guarded. The system shall be furnished with an adjustable floor pulley for increasing or decreasing cord tension. Stretch-resistant operating cord shall have synthetic center and shall be of 3/16" diameter, extra quality yarn. Operating cord shall be concealed within the track.
Model 220 as manufactured by Automatic Devices Company of Allentown, PA.

Model 224 TRAK-EZE® Walk-Along Operation

Curtain tracks (Model 2200) shall be of 16 gauge extruded aluminum construction, anodized finish, entirely enclosed except for slot in the bottom, and in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1701)** shall be placed on 6" centers and shall be of plated steel construction with two polyethylene wheels held to block by plated steel rivet, such wheels rolling on two separate parallel treads. Master carriers (Model 2200) shall be plated steel construction with two polyethylene wheels held to block by plated steel rivet and shall allow curtain overlap by passing each other in a common track channel. Track design shall provide a 12" center overlap.
Model 224 as manufactured by Automatic Devices Company of Allentown, PA.

Model 220-N TRAK-EZE®

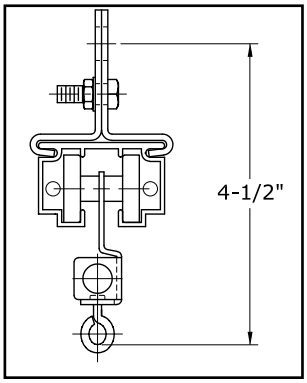
Curtain tracks shall be of 16 gauge extruded aluminum construction, anodized finish, entirely enclosed except for slot in the bottom, and in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2201)** shall be placed on 12" centers and shall be of plated steel construction with two nylon tired ball-bearing equipped wheels held to block by plated steel rivet, such wheels rolling on two separate parallel treads. Track design shall provide a 24" center overlap. End pulley blocks shall be equipped with steel sheaves adequately guarded. The system shall be furnished with an adjustable floor pulley for increasing or decreasing cord tension. Stretch-resistant operating cord shall have synthetic center and shall be of 3/16" diameter, extra quality yarn. Operating cord shall be concealed within the track. Model 220-N as manufactured by Automatic Devices Company of Allentown, PA.

Model 224-N TRAK-EZE® Walk-Along Operation

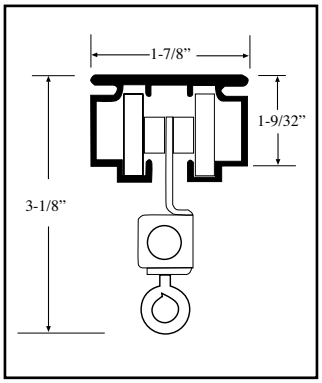
Curtain tracks (Model 2200) shall be of 16 gauge extruded aluminum construction, anodized finish, entirely enclosed except for slot in the bottom, and in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 2201)** shall be placed on 12" centers and shall be of plated steel construction with two nylon-tired ball-bearing equipped wheels held to block by plated steel rivet, such wheels rolling on two separate parallel treads. Master carriers **(Model 2202)** shall be plated steel construction with two nylon-tired ball-bearing wheels held to block by plated steel rivet and shall allow curtain overlap by passing each other in a common track channel. Track design shall provide a 12" center overlap. Model 224-N as manufactured by Automatic Devices Company of Allentown, PA.

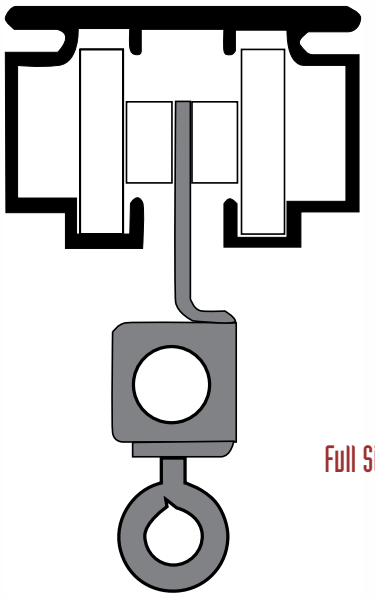
Model 220 - Trak-Eze® Assembly

Cross Section of 220 Track Suspended
(Recommended pocket width - 6")



Cross Section of 220 Track Ceiling Mount
(Recommended pocket width - 6")





Full Size End View

No. 2200 Track

1' – 8 oz.
16 gauge extruded aluminum, clear anodized finish. Obtainable in unspliced lengths up to 26'. Holes provided on 16" centers on top of the channel for direct ceiling attachment.
Approximately: 1-7/8" wide x 1-1/4" high.

No. 1701 Single Carrier

1 – 1-1/2 oz.
Block constructed of plated steel with two heavy-duty polyethylene wheels. Carrier spacing 6" on center.
Carrier width: Approximately 1-1/4".

The Model 220 Trak-Eze® track is an ideal commercial duty curtain track for straight medium weight curtains of 32 feet or less, where it is important that the cord be completely concealed in the track and that the track be mounted directly to the ceiling. The track has been designed to have a low profile and to be aesthetically appealing while still providing the strength needed for moderately sized curtains.

The track channel is designed to be mounted flush to an overhead structure, but can be equipped with Model 2208 hanging clamps which can be used to suspend the track below a suspended ceiling. The track can also be recessed into a finished ceiling. When recessed, the channel can be installed before finish spackle is applied with operating components added later. The channel is custom cut at the factory and is obtainable in unspliced lengths of up to 26'.

No. 2201 Single Carrier

1 - 2 oz.

Block constructed of plated steel with two nylon-tired ball-bearing equipped wheels. Carrier spacing 12" on center. Carrier width: Approximately 1-1/4".

No. 2202 Master Carrier

1 – 3 oz.

Block constructed of plated steel with two nylon wheels and cord lock. Rolls in single runway to provide curtain overlap. Carrier width: Approximately 4".

No. 2202-T Tandem Carrier

1 – 3 oz.

Block constructed of plated steel with two nylon wheels. Rolls in single runway behind master carrier to provide additional curtain overlap.
Carrier width: Approximately 4".

No. 2202-B Master Carrier

1 – 3-1/2 oz.

Block constructed of plated steel with two nylon-tired ball-bearing equipped wheels and cord lock. Rolls in single runway to provide curtain overlap.
Carrier width: Approximately 4".

No. 2202-BT Tandem Carrier

1 – 3-1/2 oz.

Block constructed of plated steel with two nylon-tired ball-bearing equipped wheels. Rolls in single runway behind master carrier to provide additional curtain overlap.
Carrier width: Approximately 4".

No. 2224 Splice Clamp

1 – 8 oz.

Formed from 20 gauge sheet steel surrounds the outer surface of the two track sections being joined. Used only to assure proper alignment of the two track sections. Not designed to support track or track load.
Approximately: 8" long x 2-1/8" wide x 1-1/4" high.

No. 2163 Projection Bracket

1 - 11 oz.

For use when track is to be mounted to side wall as opposed to overhead. Recommended spacing 2' on center along length of track. Projects center-line of track approximately 3-1/2" from side wall.

NOTE: CURTAIN FABRIC MAY RUB WALL WHEN STACKING

Approximately: 3-15/16" long x 3-11/16" high x 3/4" wide.

No. 2203 Live End Pulley

1 – 6 oz.

Equipped with two oil-impregnated sleeve-bearing steel sheaves. Extends 2-3/4" beyond track end. Pulley width: Approximately 2-5/8".

No. 2204 Dead End Pulley

1 – 5-1/2 oz.
Equipped with one ball-bearing equipped steel sheave. Extends 2-1/2" beyond track end.
Pulley width: Approximately 2-5/8".

No. 2208 Hanging Clamp

1 – 4 oz.
Plated steel construction, provided in two halves. Recommended spacing 5' on center (also within 2" of each end pulley). Adjustable to any location. Must be rigidly supported to an overhead structure.
Approximately: 1-1/2" wide.

No. 2209 End Stop

3 – 1 oz.
Plated steel construction. Prevents carriers from moving beyond selected position in track.

No. 2209W End Stop for Walk Along Systems

End stop for walk-along systems only.
One used at each end of the track system.
Helps to contain the carriers in the track.

No. 2202L Leg Master Carrier

1 – 11 oz.
Master carrier for one-way draw (leg) track systems. Unit provides fabric overlap of dead-end pulley. Plated steel construction with nylon tired ball-bearing equipped wheels.
Carrier width: 10" (5.5" extension arm)

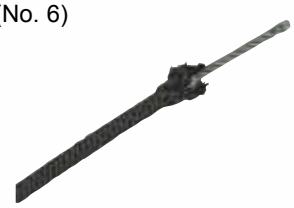
DISCONTINUED

No. 1145 Floor Pulley [3 inch wheel]

1 - 4 oz.
Equipped with 3" nylon ball-bearing wheel. Tension spring provides cord tension. Can be either wall or floor mounted.
Approximately: 1" long x 3/4" wide x 9" high.

No. 2160 Cord

100' – 1 lb. 10 oz.
Synthetic center and stretch-resistant.
For manually operated tracks.
3/16" (No. 6)



No. 1151 Cable

100' - 1 lb. 3 oz.
Wire center. For machine-operated tracks.
1/8" (No. 4)

Installing A 220 Track? Consider...

DISCONTINUED

Model No. 1002-VED Curtain Machine

Consider using the Model 1002VED Tom Thumb® machine to motorize your 220 track.

This type of machine is mounted to the floor directly below the live-end pulley of the track.

Refer to page 108 for more information on Model 1002-VED machines.

	Parts Included	160 MOTO-TRAC® CWANA code					
		CORD OPERATED /MOTORIZED			WALK-ALONG		
		160 Motorized Standard 6" Overlap	160 Motorized Unlimited Overlap	160B Motorized Standard 6" Overlap	160 Hand Operated 6" Overlap	160 Hand Operated Unlimited Overlap	160B Hand Operated 6" Overlap
Single Carriers	1131	√	√		√	√	
	1131B			√			√
Master Carriers	1132	√	√			√	
	1132B			√			√
	1602		√			√	
K[illegible]-Off [illegible]aster	1602-R	√					
Pulleys	[illegible]03	√	√	√			
	16[illegible]	√	√	√			
	1[illegible]				√	√	√
Splice	162[illegible]	√	√	√	√	√	√
Cable	C040		√	√			
Cord	1150				√	√	√

DISCONTINUED

SPECIFICATIONS:

MOTO-TRAC® Model 160 Curtain Tracks

Curtain tracks (Model 1600) shall be of 16 gauge [illegible]um, consisting of two side-by-side runways entire[illegible] en[illegible]se except for slots in bottom, and shall be in one continuou[illegible]e except where splicing clamps are required. Curtain [illegible]iers **(Model 1131)** shall be spaced on 6" centers and shall be composed of a non-wheel-binding block supporting two polyethylene wheels rolling on two parallel treads. One end of the trac[illegible] shall contain a Dead-end pulley **(Model 1634)** with a 1-1/4" dia. steel ball-bearing wheel adjustable for cable tension. The other end shall be equipped with a 1/30 HP gear motor with limit switches activated by the drapery carriers. Start-stop-reverse action shall be provided by a magnetic control system and push button type remote control switches.
Model 160 as manufactured by Automatic Devices Company of Allentown, PA.

MOTO-TRAC® Model 160B Curtain Tracks

Curtain tracks (Model 1600) shall be of 16 gauge aluminum, consisting of two side-by-side runways entirely enclosed except for slots in bottom, and shall be in one continuous piece except where splicing clamps are required. Curtain carriers **(Model 1131B)** shall be spaced on 6" centers and shall be composed of a non-wheel-binding block supporting two nylon-tired ball-bearing equipped wheels rolling on two parallel treads. One end of the track shall contain a Dead-end pulley **(Model 1634)** with a 1-1/4" diameter steel ball-bearing wheel, adjustable for cable tension. The other end shall be equipped with a 1/30 HP gear motor with limit switches activated by the drapery carriers. Start-stop-reverse action shall be provided by a magnetic control system and push button type remote control switches.
Model 160B as manufactured by Automatic Devices Company of Allentown, PA.

MOTO-TRAC® Model 160 Hand Operated Curtain Tracks

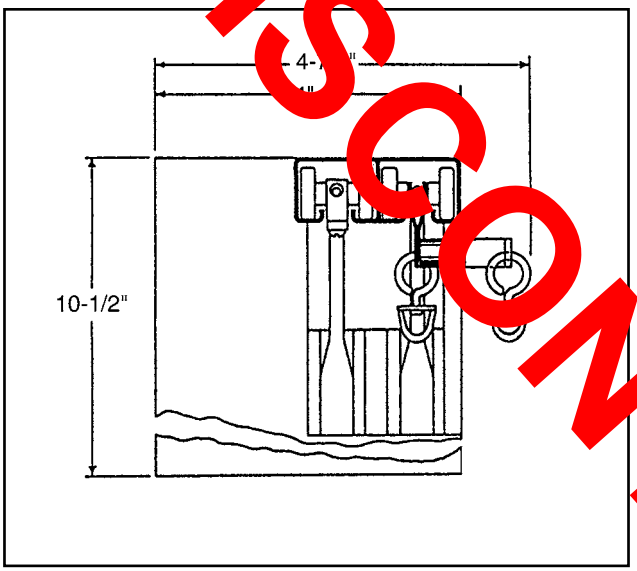
Curtain tracks (Model 1600) shall be of 16 gauge aluminum, consisting of two side-by-side runways entirely enclosed except for [illegible]ts in bottom, and shall be in one continuous piece except where [illegible]ng clamps are required. Curtain carriers **(Model 1131)** shall be s[illegible]aced on 6" centers and shall be composed of a non-wheel-bindin[illegible]lock supporting two polyethylene wheels rolling on two par[illegible] treads. One end of the track shall contain a Dead-end pul-le[illegible]**Mod[illegible]634)** with a 1-1/4" diameter steel ball-bearing wheel, [illegible]djust[illegible]r cable tension. The other end shall be equipped with a Li[illegible] en[illegible]pull[illegible] **(Model 1603)** with 2 each 1-1/4" diameter steel ball-beari[illegible]wheels. [illegible]ystem shall be furnished with a Floor pulley **(Model 1[illegible]** equi[illegible]ed with a tension spring to maintain tension on the opera[illegible]g co[illegible] (Model 1150).
Model 160 as [illegible]anufact[illegible]d by Automatic Devices Company of Allentown, PA.

MOTO-TRAC® Model 160B Ha[illegible]erat[illegible] Curtain Tracks

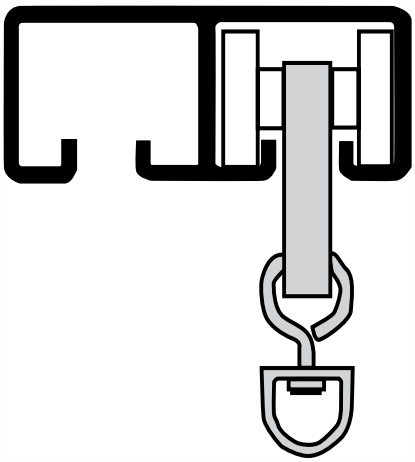
Curtain tracks (Model 1[illegible]0) sha[illegible] be [illegible] gauge aluminum, consisting of two side-by-side [illegible]unway[illegible]entir[illegible] enclosed except for slots in bottom, and shall be in on[illegible]continuo[illegible] piece except where splicing clamps are required. C[illegible]ain carri[illegible] **(Model 1131B)** shall be spaced on 6" centers and sha[illegible]e c[illegible]posed of a non-wheel-binding block supporting two nylon[illegible]ired ball-bearing equipped wheels rolling on two parallel treads. One end of the track shall contain a Dead-end pulley **(Model 1634)** with a 1-1/4" diameter steel ball-bearing wheel, adjustable for cable tension. The other end shall be equipped with a Live-end pulley **(Model 1603)** with 2 each 1-1/4" diameter steel ball-bearing wheels. System shall be furnished with a Floor pulley **(Model 1135)** equipped with a tension spring to maintain tension on the operating cord (Model 1150).
Model 160B as manufactured by Automatic Devices Company of Allentown, PA.

Model 160 Assembly
(Straight Side Configuration)

DISCONTINUED



Cross Section
of 160 Track
Min. pocket width: 5-3/4 in.



Full Size End View

Model RCS-2
Remote Control
Station

MOTO-TRAC® MODEL 160

MOTO-TRAC® is an aluminum track for straight light to medium weight draperies. The track can be one-way draw or bi-parting. Unlimited center overlap can be specified as an option. The curtain machine is attached to the track channel and may be located at either end of the track (location must be specified when ordering). The machine is concealed by the drapery fabric. Curtain machine characteristics are similar to those of Tom Thumb® Model 872-MCS except that the limit switches are located at one end of the track. The curtain stops automatically at its fully opened and fully closed positions.

WHEN ORDERING PLEASE ADVISE:

1. If operation will be bi-part or one-way.
2. If system will be motorized or manual operation.
3. If the machine is located on the left or right side of the track. (Orientation is inside looking out the window)
4. Priced 20' length. Specify actual length at time of order.

No. 1600 Channel

1' - 7 oz.

16 gauge extruded alu[illegible] and[illegible]ed finish. Obtainable in unspliced [illegible]ngths up to 20'.

Approximately: 2-1/8" wide x 7/8" hig[illegible]

No. 1131 Single Carrier

2 - 1 oz.

Carrier spacing: 6". Block, provides "bumper-to-bumper" action, and is supported from 2 polyethylene wheels. Plated swivel for free, effortless and quiet curtain movement.

Carrier width: Approximately 1-3/16".

No. 1602 Master Carrier [Default carrier]

1 - 2 oz.

Block constructed of plated steel supported from 4 polyethylene wheels. Provides **unlimited center overlap** with one curtain riding in front channel of track and one curtain riding in back channel of track.

Carrier length: Approximately 3-1/4".

No. 1132 Master Carrier

1 - 4 oz.

Similar to No. 1602 except equipped with 4" extension arm. Used on bi-parting track with fixed overlap. Also used on pinch-pleat installations in which all carriers are placed in the front channel. Provides 8” overlap. 4” in front of 4”.

[illegible]r length: Approximately 7-3/8".

No. 1602-R M[illegible] C[illegible]ier

1 - 2 oz.

Block construc[illegible] of nylon[illegible]nd steel supported from 4 polyeth[illegible]ne wheels. Placed in rear chann[illegible] turn off limit switch on drapery m[illegible]chine wh[illegible] draperies reach fully closed pos[illegible]n. U[illegible] with all motorized 160 sys[illegible]ns.

Carrier length: Approximately [illegible]2"

No. 1131-B Single Carrier

2 - 1 oz.

Carrier spacing: 6". Block, provides "bumper-to-bumper" action, and is supported from 2 nylon-tired ball-bearing wheels.

Carrier width: Approximately 1-3/16".

No. 1132-B Master Carrier

1 - 4 oz.

Similar to No. 1132 except equipped with 4 nylon-tired ball-bearing wheels. Also used on pinch-pleat installations in which all carriers are placed in the front channel. Provides 8” overlap. 4” in front of 4”.

Carrier length: Approximately 7-3/8".

No. 1624 Splicing Clamp

1 - 4 oz.

Steel clamp for joining track sections assuring proper track alignment.

Approximately: 6" long.

No. [illegible]7 Live End [illegible]

1 – 8 oz.

Used wi[illegible]**hand-o[illegible]rated** Model 160 track syste[illegible]ides the operating cords down to a floor pulley located below.

Approximately: 2" long x 2" high x 2" wide.

DISCONTINUED

No. 1604 Adjustable Idler End Pulley

1 - 1 lb. 1 oz.
Equipped with 1-1/4" diameter steel ball-bearing wheel. Adjustable for adding cord tension. Anchored to track and supports curtain machine. Also functions as end stop.
Extends 2-1/2" beyond track end.

No. 1135 Tension Floor Pulley

1 - 3 oz.
Equipped with 1 nylon ball-bearing wheel. Tension spring provides cord tension.
Approximately: 1" long x 3/4" wide x 7" high.

No. 1150 Cord

100' - 7 oz.
Synthetic center and stretch-resistant. For manually-operated tracks.
1/8" (No. 4)

Listed*
UL 717E

Curtain Machine

1 - 14 lbs.
1/30 HP gearmotor with limit switches activated by the track carriers. Can be placed at either end of the track (specify when ordering) and operated by remote control switches or by optional wireless remote control.
(See description of Tom Thumb® Model 372-MCS on page 106 for electrical characteristics.)
Approximately: 7" long x 4-1/8" wide x [illegible]" high.

Model RCS-2 Remote Control Station

Brushed steel surface with 3 momentary push button operators.

No. C040 Cable

100' - 1 lb. 3 oz.
Wire center with extruded nylon cover.
1/8" (No. 4)

WRC-1 Wireless Remote Control

ADC's Wireless Remote Control System is ideal for operating one or more drapery machines from a hand-held transmitter. The system, which operates by radio frequency, allows total flexibility in room layout because furniture and/or drapery fabrics do not interfere with the signal. Receivers measure 4-3/8" long x 2-1/2" wide x 1" deep and require a 110 volt power source. Transmitters measure 3" long x 1-3/8" wide x 3/4" deep. Start, stop and reverse control is standard.

Low Voltage Control is required on machines using Model WRC-1 Wireless Remote Control.

When considering using a Model 160 for a project please note the following:

- Curtain width must not exceed 20'.
- Curtain weight must not exceed 80 pounds total.
- Curtain machine is hardwired and requires a 120 Vac, 60 hz power source.
- Remote controls (unless WRC-1 is used) are hardwired. Control circuit is a Class 2 type circuit and requires 4 conductors plus a ground.
- Curtain machine utilizes a 1/30 HP fixed speed AC gearmotor.
- Track is designed for direct mounting to an overhead structure.
- Carrier spacing is 6".
- Curtain hangs below the track.

DISCONTINUED
DISCONTINUED

	Parts Included	114 VERS-UTIL® CWANA code CORD OPERATED /MOTORIZED 114-S STRAIGHT	114-BS STRAIGHT	114-C CURVED	114-BC CURVED
Single Carrier	1131	√		√	
	1131-B		√		√
Master Ca	1142	√	√	√	√
Pulleys	1	√	√	√	√
	114	√	√	√	√
	114	√	√	√	√
Hanging Bracket	1148	√	√	√	√
Splice	1154	√	√	√	√
Cord	2160	√	√	√	√

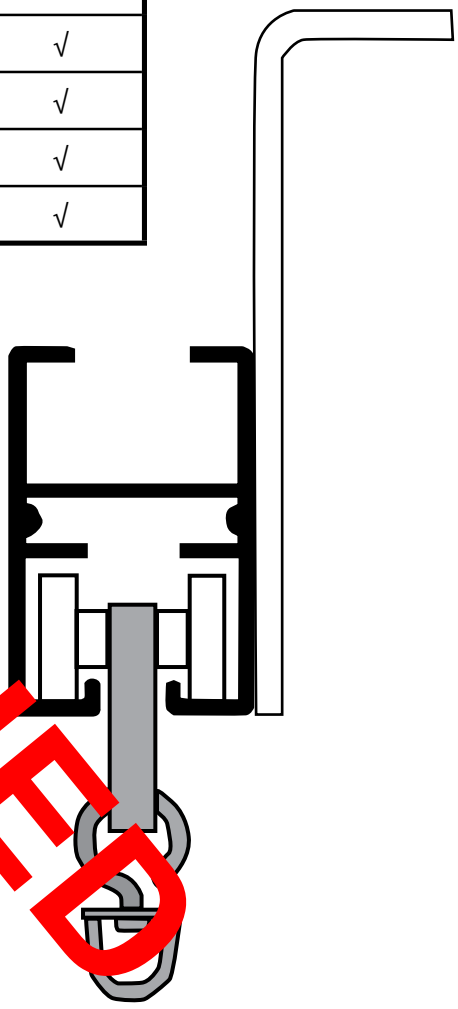
DISCONTINUED

For motorized tracks:
1. Delete the Model 1145 Floor Pulle
2. Replace the Model 2160 cord wit
   Model 1152 cable.

SPECIFICATIONS:

VERS-UTIL® Model 114 Curtain Tracks

Curtain tracks (Model 1140) shall be of 16 gauge aluminum, consisting of two runways one above the other, entirely enclosed except for slots in top and bottom, and in one continuous piece except where splicing clamps are required. Curtain carriers **(Model 1131)** shall be spaced on 6 inch centers and shall be composed of non-wheel-binding blocks supporting two polyethylene wheels rolling on two parallel treads. Live-End **(Model 1143)** and Dead-End **(Model 1144)** pulleys shall be equipped with nylon ball-bearing wheels. A tension Floor Pulley **(Model 1145)** shall be furnished for hand-operated tracks. Stretch-resistant operating cord (Model 2160 for hand operated track systems and Model 1152 for motorized track systems) shall have synthetic or wire center and shall be of 3/16" or 1/8" diameter. Operating cord shall be concealed within the track.
Model 114 as manufactured by Automatic Devices Company of Allentown, PA.



Full Size End View

Model 114 Assembly

DISCONTINUED

VERS-UTIL® MODEL 114

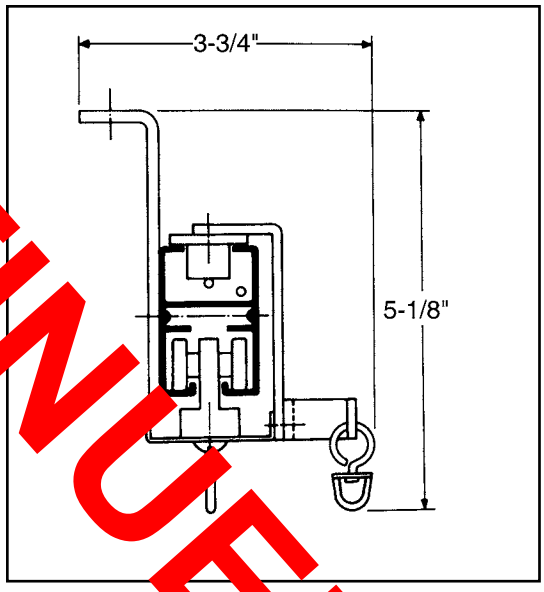
VERS-UTIL® is a reverse-curvable, aluminu[m] tra[ck] which [c]an be either manually operated or motorized. The track [c]an be one-way draw or bi-parting and is used for light to [m]ed[i]um-weight draperies on small stages, curved windows, room divi[d]ers, etc. The operating cord is concealed in the upper [c]hannel of the track.

VERS-UTIL® MODEL 114-BS, 114-BC

VERS-UTIL® is a reverse-curvable, aluminum track which can be either manually operated or motorized. The track can be one-way draw or bi-parting and is used for light to medium-weight draperies on small stages, curved windows, room dividers, etc. The operating cord is concealed in the upper channel of the track. These models are equipped with Model 1131-B ball-bearing carriers.

A sketch or template is required with each order for Model 114 curved tracks, as the channel must be factory-curved.

Minimum radius: 1' (layout dependent)



[C]ross Sec[t]ion
of [T]rack
Min. pocke[t] [w]idth [r]equ[i]red.

No. 1140 Channel

1' - 8 oz.

16 gauge extruded aluminum, anodized finish. Obtainable in unspliced lengths up to 20'. Must be cut at factory. Minimum radius: 1' 0" (layout dependent). Approximately: 1-1/4" wide x 7/8" high.

No. 1131 Single Carrier

2 - 1 oz.

Carrier spacing: 6". Block provides "bumper-to-bumper" action to prevent carrier binding, supported from 2 polyethylene wheels. Plated swivel for free, effortless and quiet curtain movement.

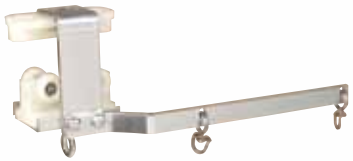
Carrier width: Approximately 13/16".

No. 1131-B Single Carrier

2 - 1 oz.

Carrier spacing: 6". Block, provides "bumper-to-bumper" action, supported from 2 nylon-tired ball-bearing wheels.

Carrier width: Approximately 1-3/16". (Optional upgrade)



No. 1142 Master Carrier

1 - 7 oz.

Steel block construction supported from 4 polyethylene wheels. Extension arms provide 12" overlap on bi-parting tracks (6" in front of 6").

Carrier width: Approximately 2-1/2".

No. 1154 Splicing Plate

1 - 3 oz.

Internal aluminum plate for joining track sections. Assures proper track alignment. Channel must be straight at splice.

Approximately: 4" long.

No. 1143 Live End Pulley

1 - 7 oz.

Equipped with nylon tired ball-bearing wheels. Anchored to track end. Also functions as an end stop.

Extends 3" beyond track end.

No. 1144 Dead End Pulley

1 - 1 lb. 4 oz.

Equipped with 1 nylon tired ball-bearing wheel and 2 steel idlers. Anchored to track end. Also functions as an end stop.

Extends 4" beyond track end.

No. 1148 Combination Hanging-Ceiling Clamp

1 - 3 oz.

Recommended spacing: 2'0". Adjustable to any location. Bolts through center of channel. Bolts directly to rigid overhead structure.

Extends track height: Approximately 1-5/8".

No. 1145 Tension Floor Pulley

1 - 4 oz.

Equipped with 3" nylon tired ball-bearing wheel. Tension spring provides cord tension.

Approximately: 1" long x 3/4" wide x 9" high.

No. 2160 Cord

100' - 1 lb. 10 oz.

Synthetic center and stretch-resistant. For manually operated tracks.

3/16" (No. 4)

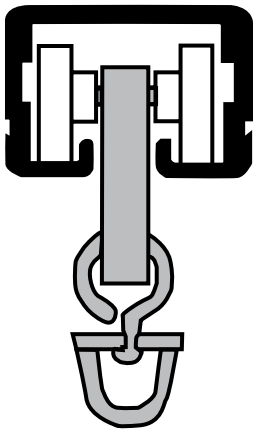
No. 1152 Cable

100' - 1 lb. 3 oz.

Wire center. For machine-operated tracks. 1/8" (No. 4)

DISCONTINUED

		113 SPECIFINE® CWANA code		
		CORD	WALK-ALONG	113-B
Single Carriers	1131	√	√	
	1131B			√
Master Carriers	1132	√	√	
	1132B			√
Pulleys	1133	√		√
	1134	√		√
	1135	√		√
Cord	1150	√		√
Splice	1124-A	√	√	√
End Stop	1109		√	



Full Size End View

Can be factory curved for walk-along operation only.

SPECIFICATIONS:

SPECIFINE® Model 113 Curtain Tracks

Curtain tracks (Model 1100-A) shall be of 16 gauge extruded aluminum construction, anodized finish, entirely enclosed, except for slot in bottom, and in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1131)** shall be spaced on 6" centers and shall be composed of a special non-wheel binding abrasion-resistant block supporting two polyethylene wheels rolling on two separate parallel treads. Live-End **(Model 1133)** and Dead-End **(Model 1134)** pulley blocks shall be equipped with nylon ball-bearing wheels adequately guarded. The manufacturer shall furnish a tension Floor Pulley **(Model 1135)** for increasing cord tension. Stretch-resistant operating cord (Model 1150 for hand operated track systems and Model 1151 for motorized track systems) shall have synthetic or wire center and shall be of 1/8" diameter. Operating lines shall be concealed within the track.
Model 113 as manufactured by Automatic Devices Company of Allentown, PA.

SPECIFINE® Model 113-A Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 1100-A) shall be of 16 gauge extruded aluminum construction, anodized finish, entirely enclosed, except for slot in bottom, and in one continuous piece except where splicing clamps are required. Each curtain carrier **(Model 1131)** shall be spaced on 6" centers and shall be composed of a special non-wheel binding abrasion-resistant block supporting two polyethylene wheels rolling on two separate parallel treads. End Stops **(Model 1109)** shall be attached to each open end of the track channel. This model track system is for **walk-along operation only** and does not include pulleys or other operating hardware.
Model 113-A as manufactured by Automatic Devices Company of Allentown, PA.

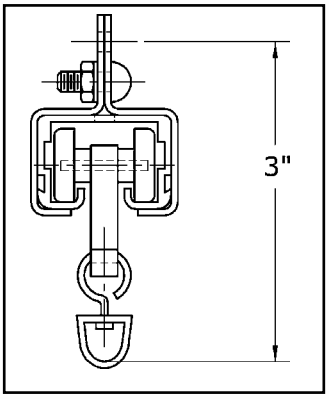
Model 113 Assembly

SPECIFINE® Model 113

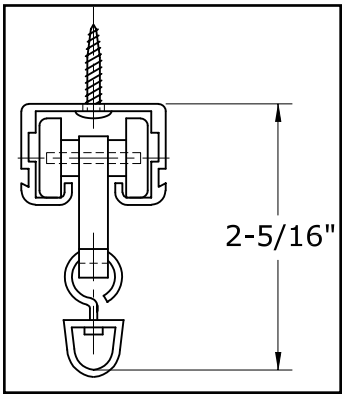
SPECIFINE® Model 113 is an aluminum box-shaped curtain track specifically designed to meet architectural specifications for straight curtains up to 20' in length. Classrooms, residences, boardrooms, multi-purpose rooms, cafeterias, churches, hotels, banks, are all ideal applications for the Model 113 SPECIFINE® track.

This track can be either recessed, surface mounted, or can be suspended from the ceiling. The cord is completely concealed within the track channel. The carriers move effortlessly through the track channel without the carrier block binding against the channel.

Dovetail design on exterior of channel allows joint compound to seep into slot allowing a flush finish.



Cross Section
of 113 Track
Suspended Installation
Min. pocket width: 4-3/4 in.



Cross Section
of 113 Track
Ceiling Mount

No. 1100-A Channel

1' - 5 oz.

16 gauge extruded aluminum, clear anodized finish. Obtainable in unspliced lengths up to 20'. When recess mounting is desired, dovetail design on exterior of channel allows joint compound to seep into slot allowing a flush finish.

Approximately: 1-1/4" wide x 7/8" high.

No. 1131 Single Carrier

2 - 1 oz.

Carrier spacing: 6". Block provides "bumper-to-bumper" action, supported from 2 polyethylene wheels. Plated swivel for free, effortless and quiet curtain movement.

Carrier width: Approximately 1-3/16".

No. 1132 Master Carrier

1 - 2-1/4 oz.

Composed of a plated steel body with 4 solid polyethylene wheels. Extension arm provides 8" maximum overlap (4" in front of 4").

Carrier length: Approximately 7-1/2".

No. 1131-B Single Carrier

2 - 1 oz.

Carrier spacing: 6". Block, provides "bumper-to-bumper" action, supported from 2 nylon-tired ball-bearing wheels.

Carrier width: Approximately 1-3/16".

No. 1132-B Master Carrier

1 - 4 oz.

Similar to No. 1132 except equipped with 4" extension arm and 4 nylon-tired ball-bearing wheels. Also used on pinch-pleat installations. Provides 8" overlap. 4" in front of 4".

Carrier length: Approximately 7-1/2".

No. 1124-A Splicing Clamp

1 - 2 oz.

Anodized aluminum sleeve for joining track sections assuring proper alignment.

Approximately: 8" long x 1-3/8" wide x 1" high.

No. 1133 Live End Pulley

1 - 2 oz.

Equipped with 2 nylon ball-bearing wheels. Attaches to track end and also functions as an end stop.

Pulley bracket width: Approximately 1-1/4".

Extends 1-1/2" beyond track end.

No. 1134 Dead End Pulley

1 - 1-1/2 oz.

Plated steel construction, equipped with 1 nylon-tired ball-bearing wheel.

Pulley bracket width: Approximately 1-1/4".

Extends 1-1/2" beyond track end.

No. 1138 Hanging Clamp

1 pr. - 1 oz.

Plated steel construction, recommended spacing: 4'. Adjustable to any location. Chain or cable suggested for track suspension.

Approximately: 1-5/16" wide x 3/4" long x 1-7/8" high.

No. 2163 Projection Bracket

1 - 11 oz.

For use when track is to be mounted to side wall as opposed to overhead. Recommended spacing 2' on center along length of track. Projects centerline of track approximately 3-1/2" from side wall.

NOTE: CURTAIN FABRIC MAY RUB WALL WHEN STACKING

Approximately: 3-15/16" long x 3-11/16" high x 3/4" wide.

No. 1135 Tension Floor Pulley

1 - 3 oz.
Equipped with 1 nylon ball-bearing wheel. Tension spring provides cord tension.
Approximately: 1" long x 3/4" wide x 7" high.

No. 1109 End Stop

2 - 1 oz.
Prevents carriers from slipping out of end of track.

No. 1163-AV Carrier

1 - 3 oz.
Used with No. 1100-A Channel to support light weight projection screens, maps, charts, etc. Steel block with 4 nylon tired ball-bearing wheels, S-hook, and swivel snap.
Carrier length: Approximately 1-3/4".

No. 1150 Cord

100' - 7 oz.
Synthetic center and stretch-resistant. For manually-operated tracks.
1/8" (No. 4-1/2)

No. 1151 Cable

100' - 1 lb. 3 oz.
Wire center. For machine-operated tracks. 1/8" (No. 4)

Installing A 113 Track? Consider...

Model No. 579 Drapery Machine

For light weight drapery applications requiring motorization, consider using the Tom Thumb® Model 579 machine.

This machine can attach to the ceiling at the track end, to a side wall, or the floor below the live-end pulley of the track system.

This machine plugs into a standard 120 Vac outlet and utilizes track mounted limit switches to signal the full open and full closed positions.

The Model 579 machine can also be equipped with an optional WRC-1 wireless remote control to eliminate the need for hardwiring the remote control station(s). Refer to page 104 for more information.

Refer to page 85 for more information on the WRC-1 wireless remote control.

Installing A 113 Track? Consider...

NOTE: Guards Not Shown

Model No. 1002-VED Curtain Machine

For applications with heavier curtains, consider using the Model 1002VED Tom Thumb® machine.

This type of machine is mounted to the floor directly below the live-end pulley of the track.

The machine offers a grooved cable drum to eliminate cable slippage, integral rotary limit switches for the open and closed positions, low voltage control and fixed speed operation.

The unit requires a hardwired 120 Vac, 60 hz power source and the hardwired remote controls (Class 2) require 4 conductors plus a ground.

The machine can also be equipped with the optional Model WRC-1 wireless remote control.

Refer to page 108 for more information on Model 1002-VED machines.

DISCONTINUED

DISCONTINUED

Rotodraper® Pivot Arms

Shown without optional brake

Shown with optional brake

Rotodraper® pivot device are used for changing the position of curtains on tormentors, side legs, back-drops and cycloramas. The effect is easily accomplished either by turning the curtain itself or by fastening a towline to the curtain pipe and pulling the tow line until the curtain is in the desired position.

The pivot device is unique because no implement is required to secure the curtain to its proper position. The Rotodraper® is simply installed and easily manipulated to any angle desired including a full 360° turn.

OPTIONS INCLUDE:

Models 28-A, 17-A, 14-A, and 6-A include an index plate and spring-loaded roller latch which secures the device at 15 degree intervals and helps to prevent accidental rotation.

With the use of a special brake, track-type Rotodrapers® can be secured at any location along the track, helping to prevent accidental movement of the device. Simply by pulling down on the cord, the brake is released and the pivot arm moved. (Obtainable as an option.)

OUTSTANDING FEATURES:

- SELF-LOCKING BRAKES (Optional on track type Rotodrapers®)
  No. 401 for use with No. 28 Rotodrapers®.
  No. 402 for use with all other Rotodrapers®.
  No. 28 and 17 Rotodrapers® incorporate the use of large diameter Kralastic wheels which help prevent climbing and tilting in the track channel.
- TWO C-CLAMPS No. 400 furnished with each Rotodraper® for fitting to each end of the pipe attached to the Rotodraper®. For use with towlines.
- TENSION SPRING composed of 1-3/32" O.D. heavy duty compression spring. Provides necessary friction to secure Rotodraper® in position.
- PIPE CLAMPS furnished with each Rotodraper® to accommodate 1" pipe. 1-1/4", 1-1/2" and 2" pipe clamps also available BUT MUST BE REQUESTED WHEN ORDER PLACED.
- PIPE BATTEN is available in either 1", 1-1/4", or 1-1/2" O.D..
  All pipe is Schedule 40. Maximum suggested length of pipe is 8'.
  Must be ordered separately.
- DIMENSIONS OF Rotodrapers®:
  Standard Units: 13" long x 2-1/4" wide x 9-3/8" high
  For units with locking devices ("A" type) 13" long x 4" wide x 10" high

No. 28 [28-A] Rotodraper®

1 - 4 lbs. 14 oz.
Used with 2800 track channel. Brackets formed of 11 gauge steel. Can support 75 lbs. maximum weight. Two Pipe Clamps supplied (clamps for 1" pipe standard).

No. 17 [17-A] Rotodraper®

1 - 4 lbs. 5 oz.
Used with 1700 track channel. Brackets formed of 11 gauge steel. Can support 75 lbs. maximum weight. Two pipe clamps supplied (clamps for 1" pipe standard).

No. 6 [6-A] Rotodraper®

1 - 4-1/2 lbs.
Brackets formed of 11 gauge steel. For hanging from pipe with use of U-bolts. Can support 100 lbs. maximum weight. Two pipe clamps supplied (clamps for 1" pipe standard). Two No. 400 C-clamps provided for attachment to pipe ends.

No. 14 [14-A] Rotodraper®

1 - 4-1/2 lbs.

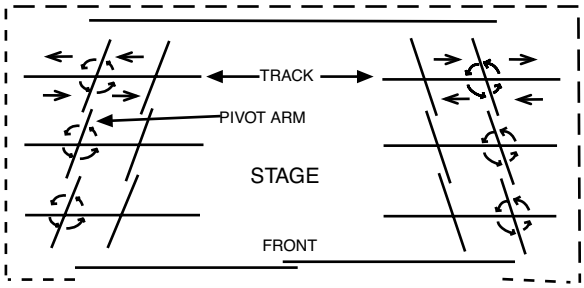
Used with 1400 and 4200 track. Brackets formed of 11 gauge steel. Can support 75 lbs. maximum weight. Two Pipe Clamps supplied (clamps for 1" pipe standard). Two No. 400-C Clamps provided for connecting towlines.

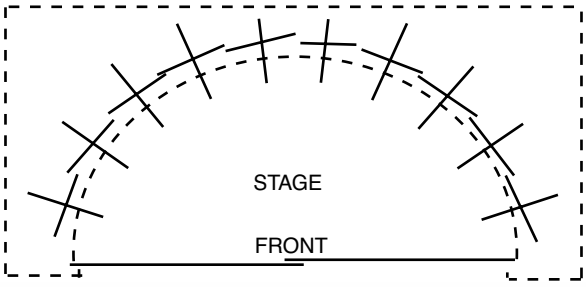
No. 28-A [17-A, 14-A, 6-A] Rotodraper®

1 - 5-1/2 lbs.

Used with 2800 track channel. Essentially same as Model 28 except includes ball-type locking device which provides precise 15 degree settings of rotation. Models 17-A, 14-A and 6-A correspond with Models 17, 14, and 6, respectively. Two pipe clamps supplied (clamps for 1" pipe standard). Two No. 400-C clamps provided for connecting towlines.

Safety End Stops are included with all track type Rotodrapers® and MUST be used.





Typical Rotodraper® Applications

FAN-SHAPED SWITCHER-I® Switching Devices

No. 143-5 Switch

Switch Model No.	No. of Switching Directions	Track Model No.	Approx. Overall Dimensions (inches) (Incl. permanent track sections.)			Approx. Shipping Weight (lbs.)
			L	W	H	
423-3	3-way	422, 422-R	48	16	5	39
143-3	3-way	142, 142-R	48	16	4	31
423-4	4-way	422, 422-R	48	16	5	42
143-4	4-way	142, 142-R	48	16	4	33
423-5	5-way	422, 422-R	48	16	5	45
143-5	5-way	142, 142-R	48	16	4	35

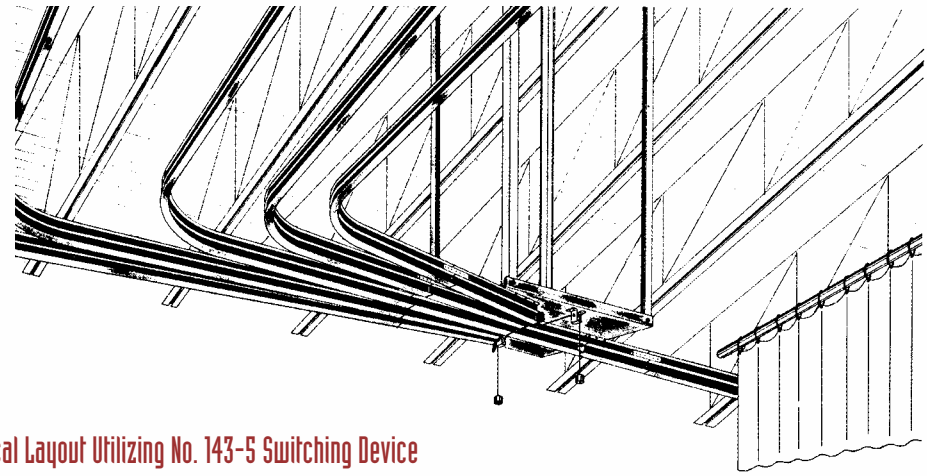
ADC switching devices allow for the switching of “walk-along” curtains from one track to as many as five tracks in a fan-shaped arrangement.

By pulling a pendant, a pivoted section of track channel can be moved to one of two, three, four, or five switching positions. A spring-loaded detent positions the pivoted section to provide proper alignment with the desired curtain track. The operating cable and both pendants can be located on either side of the switch or one pendant on each side. The cables can also be extended to run over pulleys to a remote location or can be operated at the switch itself through the use of No. PP-1 Positioning Pole.

Fan-shaped switching devices are designed for use on "WALK-ALONG" tracks (Models 142, 142-R, 422 and 422-R).

Note: these devices cannot be flush mounted to the ceiling. If used with flush mounted track systems a section will need to be removed from the ceiling to allow for the top of the switching device.

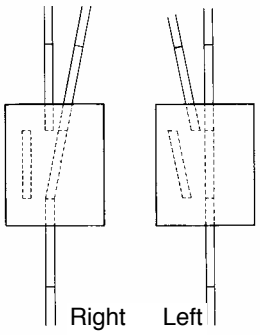
Device must be rigidly supported to an overhead structure.



Typical Layout Utilizing No. 143-5 Switching Device

SWITCHER-I® Switching Devices

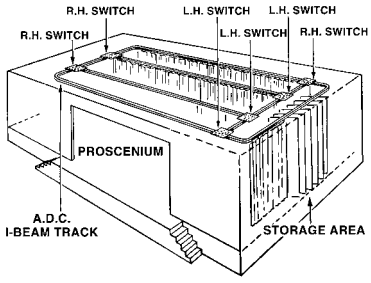
No. 143 Switch



Plan View 143

No. PP-1 Positioning Pole

No. PP-2 Positioning Pole



Typical Layout utilizing Switcher-I® Switching Device (two-way switch)

SPECIFICATIONS:

Track Switches Models 143-L and 143-R

Switch bases shall be constructed of painted, machined 1/8" steel. Switches shall be equipped with Model 1400 11 gauge extruded aluminum I-beam track milled for precise alignment in either switch position. Base plate of device shall be 1/8" steel machined to allow plate and attached track to freely move from position 1 to position 2. Operation of switch shall be via 1/8" 7 x 19 wire center operating cable attached to two (2) painted steel weights. Steel operating cable shall pass over two (2) ball-bearing equipped steel sheaves secured to steel base of switch via steel mounting straps and hardware. Mounting base shall be equipped with openings for attachment to overhead structural members (unit cannot be flush mounted to ceiling). Model 143-L (Left hand switch) and Model 143-R (Right hand switch) as manufactured by Automatic Devices Company of Allentown, PA.

DESCRIPTION:

SWITCHER-I®

Standard switching devices (for two-way direction) represent a major development in the effort toward more versatile stage and studio settings. Simply by pulling down on a pendant, the track channel is shifted and the curtain is then moved to the switched channel. The mechanism is operated by a spring-loaded lever locking the switched channel into place. In this fashion the scenic contour is quickly and effectively converted to the desired setting. With this flexible switching arrangement stage depths are easily increased or decreased and facilities for curtain storage are made available.

Designed for use with all ADC "walk-along" cyclorama tracks. Switches must be rigidly mounted in all instances. The device is easily installed and merely involves conventional splicing of the track channel to the permanent track sections incorporated as component parts of the switch which is furnished for either left-hand or right-hand operation (must be specified when ordering). No. PP-1 Positioning Pole is used to move the two-way switch to another position by simply engaging the pendant and pulling down. It is 8'6" long and can be extended to 16'.

IMPORTANT NOTES:

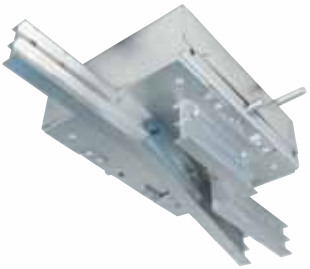
- Standard switches are designed for switching to either left-hand or right-hand from center. Switching direction must be specified when ordering. Left and right-hand designation is determined from a plan view perspective.
- Switching mechanism is for manual operation of "walk-along" I-Beam tracks of ADC manufacture only.
- Device can be installed at any location desired.
- Switches cannot be used with flush-mounted tracks unless a recess is provided in the ceiling to accommodate the mechanism.
- Device must be rigidly mounted and care must be taken not to bend the mounting plate or slide it out of alignment. It can be mounted directly to a suitable base if "L" type brackets are used on both the switch and the track channel along with standard track hanging clamps. It can also be hung from pipe batten, but it must be securely bridled.

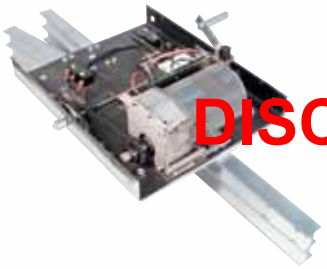
Switch Model No.	No. of Switching Directions	Track Model No.	Approx. Overall Dimensions (inches) (Incl. permanent track sections.)			Approx. Shipping Weight (lbs.)
			L	W	H	
503	2-way	502, 502-R	29	14	5	36
423	2-way	422, 422-R	27	13	5	27
143	2-way	142, 142-R	27	11	4	24
133	2-way	132	23	11	4	21
TWS	2-way	see pg. 72	27	13	5	34

DISCONTINUED DISCONTINUED

DISCONTINUED DISCONTINUED

Note: When ordering perspective is plan view. Also available with a black finish.





No. MTWS Motorized Two-Way Switch

DISCONTINUED

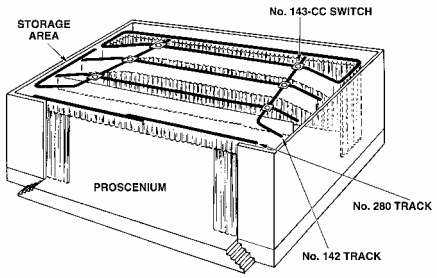
Motorized two-way switches can be used in locations where it is impractical or impossible to use a positioning pole due to extreme height, obstructions, or inaccessibility. Motorized operation is presently limited to Models 503, 423, 143 and 133.

MODEL 143-CC SWITCHER-I®

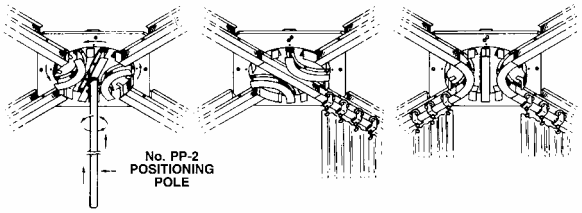
Supplementing the line of two-way switching devices described on the previous page, ADC has developed a criss-cross concept in track switching which involves a turntable on which four different switching directions can be effected.

As illustrated on the drawings below, the cyclorama track sections are easily moved by simply engaging the center channel of this four-way criss-cross switching device through upward pressure by use of a positioning pole (No. PP-2). Turning the pole causes the turntable to move in the appropriate direction and into the desired position.

Model 143-CC SWITCHER-I® can be used only with Models 142 and 142-R RIG-I-FLEX® systems. Carriers must be 6" on center to maneuver through the switch.



Typical Layout Utilizing No. 143-CC Switch (four-way switch)



No. 143-CC Method of Operation

No. PTS Parallel Switch

DISCONTINUED

These special switching devices are available for simultaneous switching of two parallel tracks. Normally, separate switches would have to be used but with a parallel track switch, only a single switch and a single operation is required. These switches are currently available for the Model 1400 series track only.

Approximately: 39" long x 38" wide

No. PTS-2 – Parallel Switch

These switching devices are designed for cyclorama applications where it is necessary to move curtains from an "outer" track to an "inner" track (or vice versa) in a perimeter system. This switch is currently available for the Model 1400 track only.

Approximately: 57" long x 18" wide

Standard track spacing is 8". Option 6" or 12" spacing available upon request.

MULTIPLE AND SINGLE LINE MULE SHEAVES

No. SLSH

No. SLSV

MULTIPLE LINE and SINGLE LINE MULE SHEAVES are used for raising and lowering Austrian or Waterfall curtains, top masking panels, gym divider curtains, as well as for muling cables. They have been designed for light weight applications only and are available in either a horizontal or vertical configu-ration. Up to 14 lines can be accomodated. Ceiling, wall, or pipe mounting available. Mule sheaves are equipped with 3" diameter sleeve-bearing wheels and painted steel housings.

When equipped with optional ball-bearing wheels, Mule sheaves can be used for the raising and lowering of light - weight scenery. Solid nylon or steel ball-bearing wheels are obtainable at an extra charge.

CAUTION: THESE PULLEYS ARE NOT TO BE USED IN HEAVY DUTY STAGE RIGGING APPLICATIONS.

Top View of Typical Application of Mule Sheaves and Clew
(One half of system shown)

Single Line Mule Sheaves:

No. SLSH (i.e. Single Line Sheave - Horizontal)
Overall dimensions: 5-1/2" L x 3" W x 1-1/2" H
Net weight: Approximately 1 lb. 2 oz.

No. SLSV (i.e. Single Line Sheave - Vertical)
Overall dimensions: 3" L x 3" W x 3-1/2" H
Net weight: Approximately 1 lb. 4 oz.

Typical Multiple Line Mule Sheaves:

No. MLSH-2 (i.e. Multiple Line Sheave-Horizontal - with 2 lines)
Overall dimensions: 7" L x 3" W x 5" H
Net weight: Approximately 2 lbs. 6 oz.

No. MLSV-4 (i.e. Multiple Line Sheave-Vertical - with 4 lines)
Overall dimensions: 11" L x 6" W x 5" H
Net weight: Approximately 7 lbs.

CLEWS

No. T005 THIMBLE
Used to put proper bend in 7 x 19 cable prior to attaching cable clamps. Metal construction. Use at all cable termination points.

No. CF-1
Cable fastener for up to 3/16" cable. Not rated for lift cables.

No. CF-3
U-bolt style cable clamp for up to ¼" cable. Rated for lift cables.

CLEWS are a means of joining three or more lines into one single lift line. Accomodations for up to 24 lines can be provided. A single cord, when pulled, operates the entire group. Clews are capable of supporting approximately 500 lbs. maximum weight.

NOTE: Cables must be secured to the clew with industry approved thimbles and clamping devices.

Notice: Lift component selection is governed by a number of project specific variables such as method of attachment, structural strength of mounting surface and hardware, cable routing, etc. ADC strongly recommends that a third party structural engineer or qualified rigger be consulted for a lift application. As a component manufacturer, ADC cannot provide assistance with the design or installation of lift systems.

CONTOUR PULLEYS

No. CP-5

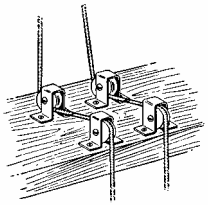
Contour Pulleys are used for the raising and lowering of contour curtains and for other applications where multiple cables must follow a curved or irregular path. Cables can be taken to the end of the curtain or can be run overhead toward the rear of the stage at any point along the contour. Pulleys are equipped with 2-1/2" diameter nylon tired ball-bearing wheels and should be used only with coated cables. Provisions for up to 20 lines can be furnished for surface-mounting or pipe-mounting. Appropriate clews, single and multiple line sheaves are available.

CONTOUR PULLEYS ARE NOT TO BE USED IN HEAVY DUTY STAGE RIGGING APPLICATIONS.

MULE BLOCKS

No. MB-1
1 - 4 oz.
2” long x 1-3/8” wide
x 1-7/8” high.

No. MB-2
1 - 10 oz.
4-1/2” long x 1-3/8” wide
x 1- 7/8” high.

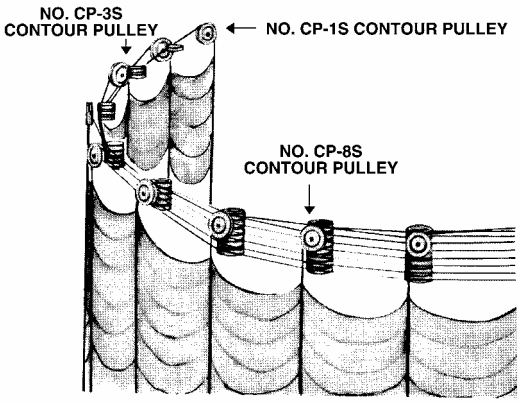


Method of Application

No. MB-3
1- 2-1/2 lbs.
5” long x 4” wide
x 3-1/2” high.
(use with 1403-A live-end pulley)

No. MB-4
1 - 3 lbs.
6-1/2” long x 6” wide
x 2-1/2” high.
(use with 5000-A live-end pulley)

No. MB-5
1 - 3-1/2 lbs.
6” long x 5” wide
x 7” high.
(use with 5003 live-end pulley)



View of Typical
Contour Pulley Application

Typical Contour Pulleys:

No. CP-1S (i.e. Contour Pulley with 1 vertical wheel, surface-mounted)
Overall dimensions: 3-1/2" L x 3" W x 2-7/8" H.
Net weight: Approximately 13 oz.

No. CP-1P (i.e. Contour Pulley with 1 vertical wheel, pipe-mounted*)

No. CP-5S (i.e. Contour Pulley with 1 vertical wheel, 4 horizontal wheels, surface-mounted)
Overall dimensions: 6-3/4" L x 3" W x 3" H.
Net weight: Approximately 2 lbs. 4 oz.

No. CP-5P (i.e. Contour Pulley with 1 vertical wheel, 4 horizontal wheels, pipe-mounted*)

NOTE: All contour pulleys with horizontal wheels measure 6-3/4" L x 3" W; however, height increases by approximately 1/2" for each CP over CP-5S. Weight increases by approximately 2 oz. for each CP over CP-2S.
* Specify pipe size when ordering.

MULE BLOCKS

Mule Blocks are a means of allowing lines to pass over the edge of a sill without rubbing or binding.

MB-1 is a single-wheeled ball-bearing pulley; MB-2 is a double-wheeled ball-bearing pulley and is used for muling double lines; MB-3 is used with Nos. 3503-A and 1403-A Center Take-Off Live End Pulleys while MB-4 is used with No. 5003-A Center Take-Off Live End Pulley. MB-5 is used with No.5003 live end pulley.

IMPORTANT NOTE:

Adding turns of any degree to operating lines increases the overall load of the system. Allowance must be made for this additional loading when machines are used to operate the systems. The use of pulleys with wheels larger than those used in the MB series will lessen the effect of the added load.

LIFT CURTAIN PULLEYS

No. LCP-1
1-1 lb. 6 oz.
3" long x 1" wide x 3-1/2" high.

LIFT CURTAIN PULLEYS are used for raising and lowering gym divider, top masking, and other type curtains where a swivel type action is desirable.
These pulleys are designed for light-weight applications only and are supplied with single wheels only. Lift curtain pulleys are equipped with a 3" diameter nylon sleeve-bearing wheel and are capable of supporting 150 pounds maximum per pulley line when properly installed.

CAUTION: THESE PULLEYS SHOULD NOT BE USED IN HEAVY STAGE RIGGING SYSTEMS.

DETACHABLE FLOOR BLOCKS

No. DFB-1
1-5 lbs. 12 oz.
With 3" diameter
sleeve-bearing wheel.

No. DFB-2
1 - 5 lbs. 15 oz.
With 5" diameter
ball-bearing wheel.

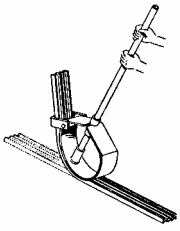
No. DFB-3
1 - 14 lbs.
With 8" diameter
ball-bearing wheel.

DETACHABLE FLOOR BLOCKS are used in installations where the track needs to be flown out. The floor pulley is simply slid out of its locked position and the track is ready to "fly".
DETACHABLE FLOOR BLOCKS can be used on any cord-operated track systems.

DFB Floor Plates: Constructed of painted steel. Requires recess of 1/4" for mounting of plate with 3/8" channel at center to allow for floor block keys.

BENDING TOOLS

No. BT-1 BENDING TOOL
1 - 19 lbs. 4 oz.
48" long x 15" wide x 9" high.
For use with Models 1300,
1400 & 4200 tracks.



Method of
Application
(No. BT-1)

NO. BT-2 BENDING TOOL
1 - 4 lbs. 14 oz.
7-1/2" long x 9-1/2" wide
x 3-1/2" high
For use with Models 1300
& 1400 only.

BENDING TOOLS are used for the curving of ADC I-beam track channels. The BT-1 can be used to bend all such I-beams simply by placing the track on the floor and positioning the bender at the location where the curve is desired. Leverage is exerted at the handle of the bender to form the curve. The BT-2 is used to bend Models 1400 and 1300 I-beam channels. The tool is fastened to the floor with the channel hand-bent using the convexity of the tool.

FLOATING SANDBAG TENSION PULLEYS (supplied without sand)

Used with flying track systems, or track systems where the floor pulley must be moved from its normal operating position. Three models of the FSBTP are available with three inch (FSBTP-3), five inch (FSBTP-5) and eight inch (FSBTP-8) diameter pulleys. Sandbags can accomodate up to 10 pounds of sand.

FSBTP-3

Sandbag shall be constructed of black nylon material with Velcro-sealed top flaps and shall have a removable plastic inner liner. Sandbag shall incorporate a heavy-duty nylon sling onto which a plated steel gated hook is attached. Sandbag shall incorporate a 3-inch diameter nylon pulley housed in a painted steel enclosure and supported by an oil-impregnated sleeve bearing. Model FSBTP-3 as manufactured by Automatic Devices Company.

Weight: 3" is 1 lb. 12 oz. (without sand)

FSBTP-5

Sandbag shall be constructed of black nylon material with Velcro-sealed top flaps and shall have a removable plastic inner liner. Sandbag shall incorporate a heavy-duty nylon sling onto which a plated steel gated hook is attached. Sandbag shall incorporate a 5-inch diameter pulley housed in a painted steel enclosure and supported by internal ball-bearings. Model FSBTP-5 as manufactured by Automatic Devices Company.

Weight: 5" is 2 lbs. 6 oz. (without sand)

FSBTP-8

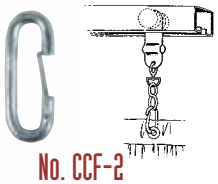
Sandbag shall be constructed of black nylon material with Velcro-sealed top flaps and shall have a removable plastic inner liner. Sandbag shall incorporate a heavy-duty nylon sling onto which a plated steel gated hook is attached. Sandbag shall incorporate an 8-inch diameter Nylatron pulley housed in a painted steel enclosure and supported by internal ball-bearings. Model FSBTP-8 as manufactured by Automatic Devices Company.

Weight: 8" is 11 lbs. 5 oz. (without sand)

	OPERATING CORDS AND CABLES					
	Part No.	Size	Stock Reel Sizes	Type	Color	Shipping Weight
Cords	1150	1/8" diameter (No. 4-1/2)	500'	Synthetic Center	White	100' = 7 oz.
	2160	3/16" diameter (No.6)	1200'	Synthetic Center	White	100' = 1 lb. 10 oz.
	1728	1/4" diameter (No. 8)	1000'/500'	Synthetic Center	Black	100' = 3 lbs. 14 oz.
	1730	5/16" diameter (No. 10)	1200'	Synthetic Center	Black	100' = 3 lbs. 14 oz.
	2828	3/8" diameter (No. 12)	1000'/500'	Synthetic Center	Black	100' = 5 lbs. 8 oz.
	2830	7/16" diameter (No. 14)	600'	Synthetic Center	Black	100' = 6 lbs. 2 oz.
Cables	1151	1/8" diameter (No. 4)	500'	Wire Center with Unglazed Woven Cotton Cover	White	100' = 1 lb. 3 oz.
	1152	1/8" diameter (No. 4)	1000'	Wire Center with Woven Polyester Cover	White	100' = 1 lb 3 oz.
	1729	3/16" diameter (No. 6)	1000'	Wire Center with Glazed Woven Cotton Cover	Red	100' = 2 lbs. 2 oz.
	3529	3/16" diameter (No. 6)	1000'/500'	Wire Center with Woven Polyester Cover	Black	100' = 2 lbs. 7 oz.
	5029	3/16" diameter (No. 6)	1000'/500'	Wire Center with Extruded Nylon Cover	Clear	100' = 3 lbs. 10 oz.
	2829	1/4" diameter (No. 8)	1000'	Wire Center with Glazed Woven Cotton Cover	Red	100' = 2 lbs. 15 oz.
	C-40	1/8" diameter	500'	Wire Center with Extruded Nylon Cover	Clear	100' = 1 lb. 3 oz.
	C-42	1/16" diameter	1500'	Wire Center with Extruded Nylon Cover	Clear	100' = 8 oz.

CARRIER-TO-CURTAIN FASTENERS

No. CCF-1
1 - 1/2 oz.
Attachable to grommets and trim chain.
1/8" pitch x 1-1/2" long.

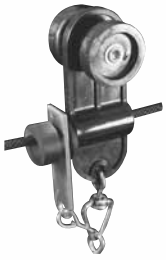


No. CCF-2
1 - 1 oz.
Attachable to grommets and trim chain.
2-1/4" long.

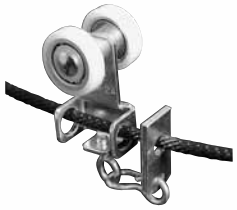
No. CCF-3
Larger style S-hooks makes attaching the curtain to the track carriers easier. 2-1/4"L x ½"W x 1/8"wire.

CARRIER-TO-CURTAIN FASTENERS are used to connect track carriers to curtain grommets and are ideal for curtain trimming with chain. No. CCF-1 is an S-Hook which fits the swivel of every carrier made by ADC. No. CCF-2 is superior to ordinary snap hooks because both ends can be used. CCFs are also available in black.

Back Pack® with Model 280 track



No. 2833 Back Pack® Guide
1/8" thickness



No. 1733 Back Pack® Guide
1/8" thickness

BACK PACK® GUIDES achieve a unique sliding door effect when used with 280 and 170 series track systems. Through the use of a special plate which is attached to the single carrier, the curtain does not accumulate in folds until the ends of the track are reached. The audience is thus able to get a mural effect until that part of the curtain is moved off stage. Back Pack® Guides are especially useful for a curtain which must be stored in a pocket. Since the gathering is accomplished after the curtain enters the pocket, the curtain cannot billow as it moves along the stage, thus assuring a minimum of stacking space in the pocket. With Back Pack® Guides there is more strain on the system at start-up which decreases as the curtain stacks. These devices may cause premature wear of the cable or cord coating.

These devices must face the pulley end of each carrier as illustrated and are not attached to the master carriers nor to the last single carrier of this track system. To assure quiet track operation on 280 Series tracks, one No. 2826 Rubber Spacer is inserted between the Guide and carrier and one No. 2827 Rubber Spacer between the Guide and adjoining carrier.

Nos. 2833 and 1733 Back Pack® Guides are for use with hand-operated 280 and 170 Series tracks; Nos. 2834 and 1734 are for all machine-operated 280 and 170 Series tracks. No. 1735 Back Pack® Guides are used with manually operated Model 172 tracks, and No. 2833-A Back Pack® Guides are used with Model 283-N and 283-R tracks.

Obtainable as options, not included in any CWANA package.

Rubber spacers are included with 280 series Back Pack® Guides and do not have to be ordered separately.

SLIDING DOOR CARRIERS are composed of 4 steel or nylon-tired ball-bearing wheels. The carrier rolls along the track and can support loads up to 150 lbs. depending on model. Its adjustable design permits leveling of door or panel height.

No. 1751-N
1-1 lb. 4 oz.
4-1/4" long x 1-1/2" wide x 4-1/2" high (max.)
(to base of plate)

No. 1751A
4-1/2" long x 3-1/2" high
3/8" thread, 14.5 oz.
(Cannot be used with curved track sections)

No. 2861
1 - 1 lb. 12 oz.
4" long x 2" wide x 6-1/2" high (max.)
(to base of plate)

No. 2861A
4-1/2" long x 3-1/4" high
3/8" thread, 16 oz.

Model	Wheel Material	Approx. Weight Cap
1751-N	Nylon	70
1751	Steel	100
2861	Nylon	100
2862	Steel	150
1751A	Nylon	150
2861A	Nylon	150
5051	Nylon	150
Multi Purpose Carrier	Nylon	225

No. 5051 Scenery Panel Carrier
5-1/16" long x 2-3/16" wide
1 - 2 lbs. 6 oz.

Multi-Purpose Carrier
No. 28 Multi
6" wide x 8-1/4" high
1 - 4 lbs.

Misc.

ADJUSTABLE BEAM CLAMPS

No. ABC-1
1 - 10-1/2 oz.
For use with 3" to 6" I-beams.

No. ABC-2
1 - 10-1/2 oz.
For use with 8" to 12" I-beams.

No. ABC-3
1 - 1 lb. 2 oz.
For use with 11" to 15" I-beams.

ADJUSTABLE BEAM CLAMPS are used where the curtain track is to be supported from I-beam structures. These clamps come complete with eye bolts. Maximum load per clamp - 300 pounds.

TRIM CHAIN

No. TC-1
3 links - 3/4 oz.

No. TC-2
5 links - 1 oz.

TRIM CHAIN is used for leveling purposes between the carrier and the top of the curtain. Three links provide 3" of curtain height adjustment on carriers where chain is not normally supplied. Other lengths are available.

Also available with black plated finish (TC-1BL, TC-2BL).

PROOF COIL CHAIN

No. TENSO
1' - 7 oz.
(3/16" pitch). 6 links per foot.

PROOF COIL CHAIN is used for suspension of tracks from I-beams, beam clamps or eye bolts. It provides a leveling means where turnbuckles are not utilized. (3/16" pitch) all-purpose chain, can also be used as a chain weight at the bottom of the curtain.

NOTE: Working load is 200 lbs.

PIPE BATTENS [Minimum radius for all pipe battens is 2']

No. PB-3, No. PB-4, or No. PB-5

No. PB-1 Curved
1" I.D. Schedule 40 pipe
Used when ordering curved track and pipe together. Must be curved to match track.

No. PB-2 Curved
1-1/4" I.D. Schedule 40 Pipe
Used when ordering curved pipe without curved track.

No. PB-6 Curved
1-1/2" I.D. Schedule 40 Pipe

No. PB-3 Straight
1-1/4" I.D. Schedule 40 Pipe

No. PB-4 Straight
1" I.D. Schedule 40 Pipe

No. PB-5 Straight
1-1/2" I.D. Schedule 40 Pipe

PIPE BATTENS are recommended for supporting all suspended track systems, especially curved track systems. Pipe battens provide a rigid support for the softer metal used in the fabrication of curtain tracks.

MACHINE DESCRIPTIONS

ADC curtain machines are designed for specific purposes, and each has certain characteristics which should be taken into consideration during the selection process. ADC's HERCULES®, SILVER SERVICE® and AUTODRAPE® lines include machines specifically designed to operate auditorium draw curtains, gym divider draw and lift curtains, and screen side, top and bottom masking curtains.

Auditorium Draw Curtain Machines:

Offer relatively fast operation with variable speed control available as an option. Models with larger than normal cable drums, or with driving wheels and track-mounted limit switches are also available. Draw curtain machines cannot not be used for lifting; they are not designed for an overhung type of load.

Screen Masking Machines:

Available to operate side, top or bottom masking curtains and are similar to auditorium draw curtain machines except that a sprocket or spool drive is used in most cases in place of the conventional cable drum. The speed and travel are much less than that available with an auditorium draw curtain machine, providing greater stopping accuracy. Screen masking machines with 6" diameter aluminum drums and 4" diameter steel spools are available for use in masking systems with top and bottom corded tracks and with continuous loop systems.

Lift Curtain Machines:

In general, utilize a high gear ratio and are intended for auditorium lift curtains. A magnetic brake is used to minimize the drift of the curtain. An auditorium lift machine typically moves the curtain at a somewhat slower speed than an auditorium draw machine. Top masking, gym divider, and similar lift machines generally operate quite slowly. Upon request, it is possible to increase the lifting speed with special drums, gear reduction units and variable speed drives. Altering the speed affects other characteristics of the machine and, therefore, must be designed on a per project basis.

In addition to being designated for specific purposes, ADC curtain machines are also classified according to versatility within each category of use.

Versatile Curtain Machines:

(Draw Machines) 934, 1454, 2904, 6504, 2905, 6505, 7005, 2928, 2917, 2950, 2914, 2960, 2961, 2962, 2963, 9507-TV
(Side Masking) 940, 1460, 2910, 963S, 963
(Lift Machines) 936-SFR, 2907, 7007, 8007, 9007

Versatile curtain machines provide complete flexibility of operation. All machines in this category are of the Stop-Start-Reverse type and can be used with any number of control switches. These curtain machines have magnetic control systems and are compatible with most automated controls. Low voltage control systems (optional on most machines) are available on all units within this category. Multi-Stop positioning is available on all but the variable speed and smallest units.

When selecting a curtain machine for a specific application, the type of machine (lift, draw, etc.) should be taken into consider-ation as well as the method of operation (INTERMEDIATE or VERSATILE). On lift curtain applications, allowance must be made for friction of lines over pulleys, etc. We do not recom-mend that any curtain machine be selected on the basis of its maximum capability, but that a safety factor always be allowed.

CURTAIN MACHINE SELECTOR GUIDE

Machine Type	Trademark or Name	Model No.	Control Circuit	Motor HP	Low Voltage Available	Max. No. Remote Switches	Max. One Way Cable Travel (ft) (A)	Listing	Page No.
DRAW	Silver Service	2904	Versatile	1/2	Standard	Unl.	45	ETL	91
	Hercules	6504	Versatile	3/4	Standard	Unl.	45	ETL	91
	Silver Service	2905	Versatile	1/2	Standard	Unl.	90	ETL	93
	Hercules	6505	Versatile	1/2 3/4	Standard	Unl.	90	ETL	93
	Hercules	7005	Versatile	1	Standard	Unl.	90	ETL	93
	Silver Service	2928, 2914,	Versatile	1/2	Standard	Unl.	Unl.	ETL	89
	Silver Service	2917, 2950, 2960, 2961, 2962, 2963	Versatile	1/2	Standard	Unl.	Unl.	ETL	90
LIFT	Silver Service	2907	Versatile	1/2	Standard	Unl.	70	ETL	97
	Hercules	7007	Versatile	1	Standard	Unl.	70	ETL	97
	Hercules	8007	Versatile	1-1/2	Standard	Unl.	70	ETL	97
	Hercules	9007	Versatile	2	Standard	Unl.	70	ETL	97
	Hercules	9007-TV	Variable	2	Standard	Unl.	70	ETL	98
GYM DIVIDER	Autodrape	933	Intermediate	1/4	(C)	1	54	ETL	100
	Autodrape	1453	Intermediate	1/3	(C)	1	54	ETL	100
	Silver Service	2903	Intermediate	1/2	(C)	1	54	ETL	100
	Hercules	6503	Intermediate	3/4	(C)	1	54	ETL	100
	Autodrape	1452	Intermediate	1/3	(C)	1	36	ETL	101
	Silver Service	2902	Intermediate	1/2	(C)	1	36	ETL	101
	Hercules	6502	Intermediate	3/4	(C)	1	36	ETL	101
SIDE MASKING	Autodrape	940	Versatile	1/4	Yes	Unl.	18	UL/ETL	102
	Autodrape	1460M	Versatile	1/3	Yes	Unl.	18	UL/ETL	102
	Silver Service	2910	Versatile	1/2	Yes	Unl.	18	UL/ETL	102
	Autodrape	936SFR	Versatile	1/4	Yes	1	24	UL/ETL	103
	Autodrape	963S	Versatile	1/4	Yes	1	48	UL/ETL	103
DRAPERY	Tom Thumb	579	Variable	24W	Standard	Unl.	30	UL	104
	Tom Thumb	872	Intermediate	1/30	No	1	30	ETL	106
	Tom Thumb	872-MCS	Versatile	1/10	Standard	Unl.	30	UL/ETL	106
	Tom Thumb	1002	Intermediate	1/8	No	1	30	ETL	107
	Tom Thumb	1002-MCS	Versatile	1/8	Standard	Unl.	30	UL/ETL	107
	Tom Thumb	1002-VED	Versatile	1/8	Standard	Unl.	17	UL/ETL	108
	Tom Thumb	1002-VEA	Versatile	1/8	Standard	Unl.	30	UL/ETL	108

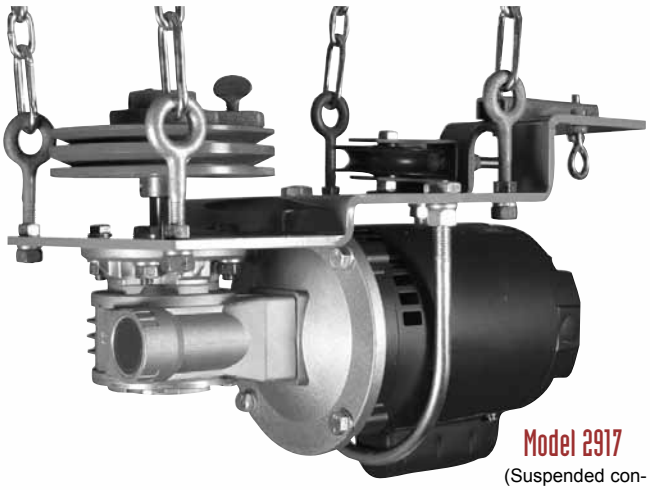
DISCONTINUED

DISCONTINUED

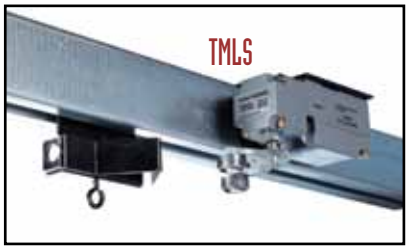
(A) Based on diameter of drive and size cable normally supplied with machine (see appropriate catalog page). Additional cable travel is obtainable by increasing size of drive and/or gear. To determine maximum track length useable with particular machine, cable travel is doubled (e.g. 36' cable travel indicates 72' curtain separation or 72' track in 2-36' sections, but figure does not include stacking space). (B) Based on loft block diameter of 6" minimum and over. (C) Low voltage available only if magnetic control system is supplied, at additional cost. (D) Discuss application with factory. * Variable Speed. Vertical lift machines are not to be used for the lifting, supporting, or transporting of people, or over areas where people are present unless suitable safety devices are installed.

NOTE: Special machines can be designed to job specification upon request. Also, most of our machines can be mounted upside down if necessary. However, we should be so advised when order is placed with us.

MODEL 2928, 2917, 2950 AND 2914 SILVER SERVICE® MACHINES



Model 2917
(Suspended configuration show)



ETL LISTED
DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS
56613
Conforms To ANSI/UL-325

Model 2914

Model 2928
(Ceiling mounted configuration show)

Model 2950

MODEL 2928, 2917, 2950 AND 2914 SILVER SERVICE® MACHINES

DISCONTINUED

Close-up of RCS-1 (standard)

Close-up of RCS-2 (optional)

Electrical Control Box

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.			
	2914	2928	2917	2950
Track series to use	140	280	170	500
Horsepower	1/2	1/2	1/2	1/2
Volts	120	120	120	120
Control voltage	24 VAC	24 VAC	24 VAC	24 VAC
Num. of Wires to Remote (Plus Ground)	4	4	4	4
Cable speed	90/45 fpm	90/45 fpm	90/45 fpm	90/45 fpm
Length	18"	16"	16"	16"
Width	11"	12"	12"	12"
Height	9"	10"	10"	10"
Weight	45 lbs	45 lbs	45 lbs	45 lbs

These machines are not to be used for the lifting, supporting, or transporting of people. These machines should not be used to move objects over areas where people are present unless suitable safety devices are installed. Other data will be found in the Curtain Machine Selector Guide (page 86).

Specifically designed for projects requiring the curtain machine to be located off of the finished floor. This model machine is designed to attach to, and align with, the curtain track and be supported by an overhead structure via eye-bolts mounted to the machine's base. The machine eliminates the vertical operating cables that normally run from a floor mounted machine to the track live-end pulley. The control box for this model machine is connected by 6' of BX cable to the machine. Control is stop/start/reverse from any point of travel.

OUTSTANDING FEATURES:

N-GROOVE WHEEL DRIVE

Double machined N-grooves in conjunction with an adjustable tension idler provide maximum friction for a near slip free operation.

REMOTE CONTROL STATION

DISCONTINUED

Three-button type and marked Open, Close and Stop. Any number of remote control stations can be used with this model machine. Machine is supplied with remote control station which can be mounted up to 2000 feet away from control box.

CONTROL BOX

Supplied attached to but separate from the machine for placement on an adjacent wall. Control box is supplied pre-wired and to machine with 6' of BX cable.

LIMIT SWITCHES

Track mounted limit switches are used to provide positive stops for the curtain. Two limits are provided with the machine - one for the open direction and one for the close direction. Limit switch voltage is 24 VAC. Master carrier with tripping dog included.

OVERLOAD PROTECTIVE BREAKER

Automatic type which helps to protect the machine, track and curtain from the effects of accidental overload. Must be manually reset.

SAFETY RELAY

Prevents single phase motor from continuing to run in the same direction when a push-button is pressed at the same instant a limit switch is tripped.

OPTIONAL EQUIPMENT

Wireless remote control (Model WRC-1)
Key operated remote control (Model KOS-1)

Specifications for Models 2928, 2950, 2917 & 2914 Silver Service Machine

Curtain machine shall be fully automatic type equipped with a 1/2 HP fixed speed AC motor directly driving a right-angle gear reduction unit, on the output shaft of which shall be mounted a dual N-grooved drive wheel. Cable tension shall be provided by an integral adjustable tension pulley. Drive wheel shall deliver a fixed cable speed of 90 feet per minute. Mechanism shall include magnetic contactor to provide reversing action at any point along the travel and shall include three-button control switches, one mounted on the machine's control box and one for use as a remote control. Control switch wiring shall be accomplished through a low voltage system running from the machine control box to the remote control switch station. Track mounted limit switches shall provide stop signals to machine for full open and full close positions. Machine shall be equipped with disconnect switch, overload protective circuit breaker and control protective circuit breaker. The entire machine shall be mounted on a heavy steel base designed to be attached to end of curtain track and supported from the building structure. Model 2928, 2950, 2917 & 2914 as manufactured by Automatic Devices Company of Allentown, PA.

MODEL 2960, 2961, 2962 AND 2963 SILVER SERVICE® MACHINES

Close-up of RCS-1 (standard)

Model 2960 (2962)

Close-up of RCS-2 (optional)

Model 2961 (2963)

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.			
	2960	2961	2962	2963
Input Voltage	120	120	120	120
Current Draw	10A	10A	10A	10A
Control Voltage	24 AC	24 AC	24 AC	24 AC
Control wires	4	4	4	4
Horsepower	½	½	½	½
Cable Speed	90	90	45	45
Control Box	On machine	Tethered	On machine	Tethered
Length	15”	12"	15"	12”
Width	10”	12”	10”	12”
Height	24”	24”	24”	24”
Weight (shipping)	90 lbs	90 lbs	90 lbs	90 lbs

Specifically designed for projects requiring curtain machines which can fit in narrow pockets, these machines are capable of operating acoustic curtain track systems up to 75’ in length (layout dependant) and curtains weighing up to 500 pounds. The control box for these machines is provided either separately, tethered to the machine with 6’ of flexible conduit, or mounted to the machine base. Operation is stop/start/reverse from any point of travel.

OUTSTANDING FEATURES:

N-GROOVE WHEEL DRIVE

Machined with double N-grooves, the drive wheel when used in conjunction with the machine’s idler wheels and center tension wheel, provides a near slip-free operation.

CONTROL SWITCHES

Three-button type marked Open, Close and Stop. Any number of remote control stations can be used with this model machine. Machine is supplied with a set of controls on the control box and a set to be used as remote control station.

CONTROL BOX

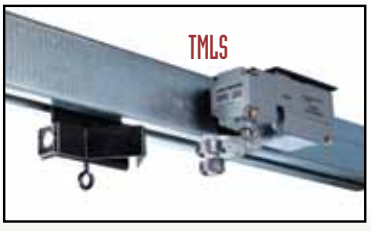
Supplied either tethered, but not mounted to the machine for placement up to 6’ away on an adjacent wall, or rigidly mounted to the machine’s base. Tethered control boxes allow you to locate the control box in a readily accessible area when the machine is located in a pocket or inaccessible area. This makes maintenance and troubleshooting easier in the field. If accessibility is not an issue, opt for the models with the control box rigidly mounted to the machine’s base.

LIMIT SWITCHES

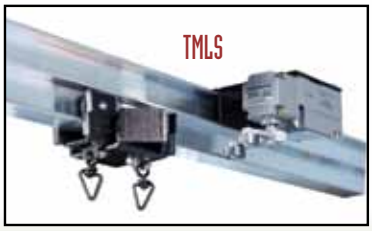
Track mounted limit switches are used to provide positive and accurate stops. Two limits are provided with the machine. Limit switch voltage is 24 VAC. Master carrier with tripping dog included.

MANUAL OVERRIDE

The machine is provided with a driving dog which allows the user to disengage the drive wheel in the event of a power failure and easily operate the system manually. When power is restored the driving dog is simply re-engaged. Since this model machine utilizes track mounted limit switches, the limit positions will not be affected by the re-engagement position of the drive wheel.



Shown on 170 track.



Shown on 140 track.

Shown on 280 track.

Shown on 500 track.

SILVER SERVICE® Model 2904
HERCULES® Model 6504

Close-up of RCS-1 (standard)

Model 934

Shown With Optional Cable Tension Device.

NOTE: Guard (ME-1) not shown. Required for ETL compliance.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.			
	934	1454	2904	6504
	DISCONTINUED	DISCONTINUED		
Horsepower	1/4	1/3	1/2	3/4
Volts	115 or 230	115 or 230	115 or 230	115 or 230
Phase	1 or 3	1 or 3	1 or 3	1 or 3
Cable Speed (fpm)	86	86	86	86
Curtain Separation Speed (fps)	3	3	3	3
Number Wires for Remote Control	4	4	4	4
Control Voltage (Plus Ground)	24 VAC	24 VAC	24 VAC	24 VAC
App. Overall Dimensions (inches)				
Length	18	18	18	18
Width	18	18	18	18
Height	27	27	27	27
Without Guard/Length	13	13	13	13
Width	14	14	14	14
Height	27	27	27	27
App. Shipping Weight (lbs.)				
With Guard	150	150	160	165
Without Guard	100	100	110	115

Other data can be found in the Curtain Machine Selector Guide (page 86).

Models 934, 1454, 2904 and 6504 are the most versatile yet most reasonably priced stop, start and reverse machines available anywhere. Designed particularly for multiple remote control station locations, these units include a magnetic reversing contactor and three-button control stations. Integral rotary limit switches provide user defined pre-set stops for the "Full Close" and "Full Open" positions. These machines are also obtainable with magnetic friction brakes which help provide more precise stopping.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Constructed of aluminum, 10" diameter x 5" long. Coated wire-center cable must be used. Drum must be at least 10' from track live-end pulley or last pulley in system, to allow cable to wind properly on drum. Drum upgrade to 10" x 7" available.

DRIVING DOG
Releases drum from drive shaft. Allows drum to spin freely for manual operation of the track system.

EMERGENCY HAND CRANK
Facilitates hand operation of curtain in case of mechanical or power failure. Not supplied when cable tension device is furnished.

ROTARY LIMIT SWITCHES
Allow for "Full Close" and "Full Open" pre-set stops as cams engage switches. Fully adjustable cam type assembly.

REMOTE CONTROL STATIONS
Three-button type and hardwired marked Open, Close and Stop. No limit to number of control stations that can be used with this type of machine. One supplied on machine, one supplied for use as remote control.

MAGNETIC CONTACTOR
Provides Start/Stop/Reverse control of the machine. Compatible with most automation systems. LVCS Low Voltage Control 24VAC, standard.

DISCONNECT SWITCH
Toggle switch which removes power to machine's internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

THERMAL OVERLOAD
Built into some motors to help prevent possible damage to the motor due to overheating (furnished on some single phase motors only).

SUGGESTED SPECIFICATIONS FOR MODELS 934, 1454, 2904 OR 6504

Curtain machines shall be fully automatic type with ... HP motor connected through V-belt drive to gear unit, on the output drive shaft of which shall be mounted elevator-type grooved cable drum delivering a cable speed of 86 feet per minute equivalent to curtain separation speed of 3 feet per second. Mechanism shall include magnetic contactor to provide reversing action at any point along the travel and shall include three-button control switch stations mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from control switch on mechanism the machine's control box to the remote control switch station. Limit switch assembly shall be mounted integrally with gear unit. Safety guard shall be provided over V-belt drive and limit switch chain drive. Machine shall be equipped with disconnect switch, automatic overload protective breaker, and emergency hand crank for conversion to manual operation unless equipped with cable tension device. The entire mechanism shall be mounted on steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

SILVER SERVICE® Model 2904-TV
HERCULES® Model 6504-TV

Model 2904-TV

Close-up of RCS-TV
(wall [standard] and flush mount [optional] units shown)

N[illegible] Guard not shown.
R[illegible]uire[illegible] for ETL compliance.

DISCONTINUED

Models 2904-TV and 6504-TV combine [illegible]ximum [illegible]ersatility with the power needed to operate small to [illegible]edium s[illegible]d draw curtains. Equipped with electronic frequen[illegible] drives, the TV series machines are the most versatile in the A[illegible]ine. [illegible]ned for draw applications these machines offer a multitud[illegible] para[illegible]eters that can be programmed in the field to meet a[illegible]ariety of [illegible]pli-cations. Parameters such as run speed, max[illegible]um obt[illegible]able speed, minimum obtainable speed, acceleration [illegible]e a[illegible] deceleration ramp time are easily changed at the drive. [illegible] machine is provided with deceleration limit switches wh[illegible] all[illegible] the machine to decelerate to a stop rather than abrupt[illegible] sto[illegible] at the end of its travel. These machines also feature emerg[illegible] overtravel limit switches and push buttons which bypas[illegible] the deceleration ramp time and shut the machine off immediately. The operation of these machines is Start/Stop/Reverse from any point of travel and low voltage control is standard. If versatility is a project requirement, this series of machines is the best option.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Constructed of aluminum 10" diameter x 5" long. Coated wire-center cable must be used. Drum must be at least 10' from track live end pulley, or last pulley in system to allow cable to wind properly on drum.

EMERGENCY HAND CRANK
Facilitates hand operation of curtain in case of mechanical or power failure. Not supplied when cable tension device is furnished.

VARIABLE SPEED (0-72 RPM)
Speed cannot be adjusted while machine is operating without effecting limit positions.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.	
	2904TV	6504TV
Horsepower	1/2	3/4
Input Voltage/(Phase)	120/220 (1) 208/230 (3)	120/220 (1) 208/230 (3)
Cable Speed (fpm)	0 to 86	0 to 86
Curtain Separation Speed (fps)	0 to 3	0 to 3
Number of Remote Wires	6	6
Control Voltage (Plus Ground) (No Speed Control at Remote)	24 VAC	24 VAC
Length With Guard	18	18
Width With Guard	20	20
Height With Guard	27	27
Length Without Guard	13	13
Width Without Guard	16	16
Height Without Guard	27	27
Shipping Weight With Guard	175	175
Shipping Weight Without Guard	120	120

Frequency drive machines must be used for any motorized system over 100 feet wide. Failure to do so would void the factory warranty.

CONTROL STATIONS
Four-button type and marked Open, Close, Stop and Fast Stop. No limit to number of control stations that can be used with this type of machine. One supplied on machine, one supplied for use a[illegible]emote control.

[illegible]MIT SWITCH
Allows [illegible]or user defined decelerated pre-set stops for the "Full Open" [illegible]"Full Close" positions. The limit assembly is also sup-plie[illegible]ith e[illegible]ergency overtravel limit switches which bypass the [illegible]elera[illegible]amps and shut the machine off immediately.

DIS[illegible]NECT [illegible]ITCH
Toggle [illegible]which removes power to machine's internal circuitr[illegible]

Power will [illegible]l be acti[illegible]e at the machine terminal strip and on one sid[illegible]f the d[illegible]onnect switch. To completely remove power from t[illegible]hine f[illegible]servicing, power must be shut off at its source and locke[illegible]ut [illegible]cording to OSHA regulations.

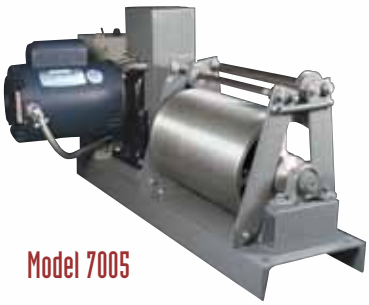
OVERLOAD PROTECTIVE B[illegible]HER
Automatic type helps [illegible]rotect mac[illegible], track and curtain against effects of accidental ov[illegible]load. [illegible]st b[illegible]manually reset.

FREQUENCY CONTROL DRIVE
Provides user definable para[illegible]s of operation. Examples are: run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time.

SUGGESTED SPECIFICATIONS FOR MODELS 2904-TV OR 6504-TV

Curtain machines shall be fully automatic type with ... HP motor connected through V-belt drive to gear unit, on the output drive shaft of which shall be mounted elevator-type grooved cable drum delivering a cable speed of 0 to 86 feet per minute equivalent to curtain separation speed of 0 to 3 feet per second. Mechanism shall include electronic frequency drive to provide reversing, variable speed, and other actions and shall include a four-button control station mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from the machine's control box to the remote control station. Limit switch assembly shall be mounted integrally with gear unit. Safety guard shall be provided over V-belt drive and limit switch chain drive. Machine shall be equipped with disconnect switch, automatic overload protective breaker, and emergency hand crank for conversion to manual operation unless equipped with cable tension device. The entire mechanism shall be mounted on steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

SILVER SERVICE® Model 2905
HERCULES® Models 6505 and 7005



Model 7005

Close-up of RCS-1 (standard)

Close-up of RCS-2 (optional)

NOTE: Guard not shown. Required for ETL compliance.

ETL LISTED
DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS
56613
Conforms To ANSI/UL-325

	Model No.		
	2905	6505	7005
Horsepower	1/2	3/4	1
Volts	115 or 230	115 or 230	115 or 230
Phase	1 or 3	1 or 3	1 or 3
Cable Speed (fpm)	72	72	72
Curtain Separation Speed (fps)	2.4	2.4	2.4
Number Wires for Remote Control (Plus Ground)	4	4	4
Control Voltage	24 VAC	24 VAC	24 VAC
App. Overall Dimensions (inches)			
Length	30	30	30
Width	18	18	18
Height	18	18	18
App. Shipping Weight (lbs.)	220	225	230

Other data can be found in the Curtain Machine Selector Guide (page 86).

Models 2905, 6505 and 7005 combine versatility with the power and drum capacity needed to operate larger than normal draw curtains.

Designed for multiple remote locations and connection to automation systems, these units include a magnetic control system, three-button control switches, and limit switches for the "Full Close" and "Full Open" positions. A Cable Tension Device is included as standard equipment. A magnetic brake, for instantaneous stopping, is available as an option.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Aluminum construction 8" diameter x 12" long. Coated wire-center cable must be used. Drum must be at least 14' from track live-end pulley, or last pulley in system to allow cable to wind properly on drum.

CABLE TENSION DEVICE
Automatically helps eliminate cable slack. Also helps retain cable within grooves of drum.

EMERGENCY HAND CRANK
Facilitates hand operation of curtain in case of mechanical or power failure.

CONTROL SWITCHES
Three-button type and marked Open, Close and Stop. No limit to number of control stations that can be used. Two supplied with each machine, one built on the machine and one to use as a remote control station.

ROTARY LIMIT SWITCHES
Allow for user definable preset stops for the "Full Close" and "Full Open" pre-set positions.

MAGNETIC CONTROL
Provides Start/Stop/Reverse control of the machine. Compatible with most automation systems. LVCS Low Voltage Control 24 VAC standard.

DISCONNECT SWITCH
Toggle switch which removes power to machine's internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

THERMAL OVERLOAD
Built into some motors to help prevent possible damage to the motor due to overheating (furnished on some single phase motors only).

SAFETY RELAY
Prevents single phase motor from continuing to run in the same direction when a push-button is pressed at the same instant the limit switch is tripped.

SUGGESTED SPECIFICATIONS FOR MODELS 2905, 6505 OR 7005

Curtain machines shall be fully automatic type equipped with ... HP motor connected to gear unit, on the output drive shaft of which shall be mounted elevator-type grooved aluminum cable drum and outboard bearing to support and align extended shaft. Cable tension device shall be provided to help automatically remove slack from cable and retain cable within drum grooves. Drum shall deliver a cable speed of 72 feet per minute. Mechanism shall include magnetic contactor to provide reversing action at any point along the travel and shall include three-button control switch mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from control switch on the machine to the remote control switch station. Limit switch shall be driven from output drive shaft of gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on heavy steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

SILVER SERVICE® Model 2905-TV
HERCULES® Models 6505-TV and 7005-TV

Model 2905-TV

Close-up of RCS-TV wall [standard] and flush mount [optional] units shown)

NOTE: Guard not shown. Required for ETL compliance.

Models 2905-TV, 6505-TV and 7005-TV combine versatility with the power and drum capacity needed to operate large draw curtains. Equipped with electronic frequency drives, the TV series machines are the most versatile in the ADC line. Designed for draw applications, these machines offer a multitude of parameters that can be programmed in the field to meet a variety of applications. Parameters such as run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time are easily changed at the drive. Each machine is provided with deceleration limit switches which allow the machine to decelerate to a stop rather than abruptly stop at the end of its travel. These machines also feature emergency overtravel limit switches and push buttons which bypass the deceleration ramp time and shut the machine off immediately. The operation of these machines is Start/Stop/Reverse from any point of travel and low voltage control is standard. If versatility is a project requirement, this series of machines is the best option.

A Cable Tension Device is included as standard equipment. A magnetic brake, for precise stopping, is available as an option.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.		
	2905TV	6505TV	7005TV
Horsepower	1/2	3/4	1
Input Voltage/Phase	120/220 1 208/230 3	120/220 1 208/230 3	120/220 1 208/230 3
Cable Speed (fpm)	0-72	0-72	0-72
Number of Remote Wires	6	6	6
Control Voltage (Plus Ground)	24 VAC	24 VAC	24VAC
Length With Guard	42	42	42
Width With Guard	30	30	30
Height With Guard	18	18	18
Shipping Weight Without Guard	230	235	245

Frequency drive machines must be used for any motorized system over 100 feet wide. Failure to do so would void the factory warranty.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Aluminum construction 8" diameter x 12" long. Coated wire-center cable must be used. Drum must be at least 14' from track live end pulley, or last pulley in system to allow cable to wind properly on drum.

VARIABLE SPEED
(0-72 RPM) Speed cannot be adjusted while machine is operating without effecting limit positions.

CABLE TENSION DEVICE
Helps eliminate cable slack automatically. Also helps retain cable within drum grooves.

EMERGENCY HAND CRANK
Facilitates hand operation of curtain in case of mechanical or power failure.

ROTARY LIMIT SWITCH
Allows for user defined decelerated pre-set stops for the "Full Open" and "Full Close" positions. The limit assembly is also supplied with emergency overtravel limit switches which bypass the deceleration ramps and shut the machine off immediately.

DISCONNECT SWITCH
Toggle switch which removes power to machine's internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type help protect machine, track and curtain against effects of accidental overload. Must be manually reset.

FREQUENCY CONTROL DRIVE
Provides user definable parameters of operation. Examples are: run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time.

DISCONTINUED

SUGGESTED SPECIFICATIONS FOR MODELS 2905-TV, 6505-TV OR 7005-TV

Curtain machines shall be fully automatic type equipped with ... HP motor connected to gear unit, on the output drive shaft of which shall be mounted elevator-type grooved aluminum cable drum and outboard bearing to support and align extended shaft. Cable tension device shall be provided to help automatically remove slack from cable and retain cable within drum grooves. Drum shall deliver a variable cable speed of 0-72 feet per minute. Mechanism shall include electronic frequency drive to provide variable speed, accelerated starts, decelerated stops and reversing action at any point along the travel and shall include three-button control switch mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from control box on the machine to the remote control station. Special limit switch shall be driven from output drive shaft of gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on heavy steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

AUTODRAPE® Models 936 and 1456
SILVER SERVICE® Model 2906
HERCULES® Model 6506

Model 936

Close-up of RCS

NOTE: Guard not shown. Required for ETL compliance.

DISCONTINUED

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.			
	936	1456	2906	6506
Horsepower	1/4	1/3	1/2	3/4
Volts (Power and Control)	115	115	115 or 230	115
Phase	1	1	1	1
Lifting Speed (fpm)	18	18	18	18
Maximum Cable Pull (lbs.)	200	300	400	450
Number Wires for Remote Control (Plus Ground)	3	3	3	3
App. Overall Dimensions (inches)				
Length	29	29	29	29
Width	11	11	11	11
Height	17	17	17	17
App. Shipping Weight (lbs.)	155	155	160	165

These machines are not to be used for the lifting,supporting, or transporting of people. These machines should not be used to move objects over areas where people are present unless suitable safety devices are installed. Other data will be found in the Curtain Machine Selector Guide (page 86).

Models 936, 1456, 2906 and 6506 were desig[ned] for rai[sing] and lowering curtains on projects where moderate co[st] is an issue. These machines are not equipped with friction brakes and may drift when stop command is issued. A fairly [high] reduction in the gear unit helps minimize this drifting. [Jog], Start and Reverse action is provided with a reversing motor and three-position maintained control switch. Integral rotary limit switches are provided the for "Full Raise" and "Full Lower" positions.

OUTSTANDING FEATURES:

CABLE SPOOL
Helps to assure a positive drive and minimize cable slippage. Constructed of coated steel 4" diameter x 8" long. Coated wire-center cable must be used.

EMERGENCY HAND CRANK
For conversion to hand operation in case of mechanical or power failure.

ROTARY LIMIT SWITCH
Allows for user defined pre-set stops for the "Full Raise" and "Full Lower" positions. Fully adjustable cam type assembly.

CONTROL SWITCH
Three-position maintained toggle type. Only one remote control station can be used with this machine, this being wired temporarily to machine at the factory to allow limit switch setting during installation. Magnetic Control System (MCSA) and Low Voltage Control System (LVCS), available as options and allow the use of any number of remote control switches.

BRAKING EFFECT
Provided by the gear reduction unit only. Provided when switch returned to center "off" position. A friction type magnetic brake is available as an option.

DISCONNECT SWITCH
Safety to[ol] switch which removes power to machine's internal circuit[ry].

Power will be active at the machine terminal strip and on the line side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

THERMAL OVERLOAD
Built into some motors to help prevent possible damage to the motor due to overheating (furnished on some single phase motors only).

SUGGESTED SPECIFICATIONS FOR MODELS 936, 1456, 2906 OR 6506

Curtain machines shall be fully automatic type equipped with ... HP special reversing motor connected through V-belt drive to single reduction gear unit, on the output shaft of which shall be mounted in elevator-type un-grooved steel cable spool delivering lifting speed of 18 feet per minute. Remote control switch shall provide reversing action at any point along elevated travel and shall be composed of three-position, maintained contact toggle-type switch. Integral rotary limit switch shall be driven from output shaft of gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker, and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on a steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

AUTODRAPE® Model 963

Close-up of RCS

NOTE: Guard not shown.
Requires ETL compliance.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No. 963
Horsepower	1/4
Volts (Power and Control)	115
Phase	1
Lifting Speed (fpm)	18
Maximum Cable Pull (lbs.)	100
Number Wires for Remote Control (Plus Ground)	3
App. Overall Dimensions (inches)	
Length	23
Width	9
Height	13
App. Shipping Weight (lbs.)	100

These machines are not to be used for the lifting,supporting, or transporting of people. These machines should not be used to move objects over areas where people are present unless suitable safety devices are installed. Other data will be found in the Curtain Machine Selector Guide (page 86).

DISCONTINUED

Model 963 is a lift machine devised to raise and lower lightweight masking, Austrian shades, and motion picture screens. Its maximum load capacity of 100 pounds falls between the lightweight Model 1003 and the heavier duty Model 2906 machines. It is equipped with a special reversing motor which permits instantaneous Stop, Start, and Reverse action from any point of travel. This machine is not equipped with a magnetic friction brake and some drift may occur when a stop command is issued. A relatively high reduction in the gear unit helps minimize this drifting.

OUTSTANDING FEATURES:

CABLE SPOOL
Helps to assure positive drive without cable slippage. Constructed of coated steel 4" diameter x 4" long. Coated wire-center cable must be used. Sprocket drive also available.

EMERGENCY HAND CRANK
For conversion to hand operation in case of mechanical or power failure.

CONTROL SWITCH STATION
Three-position maintained toggle type. Only one remote control station can be used with this model machine, this being wired temporarily to the machine at the factory for making limit switch settings during installation. Magnetic Control System (MCSA) and Low Voltage Control System (LVCS) available at additional cost as an option. These allow the use of any number of remote control stations.

BRAKING EFFECT
Is provided by the gear reduction unit only. A friction type magnetic brake is available as an option.

ROTARY LIMIT SWITCH
Allows for user defined pre-set stops for the "Full Raise" and "Full Lower" positions.

DISCONNECT SWITCH
Toggle switch which removes power to machine's internal circuitry.

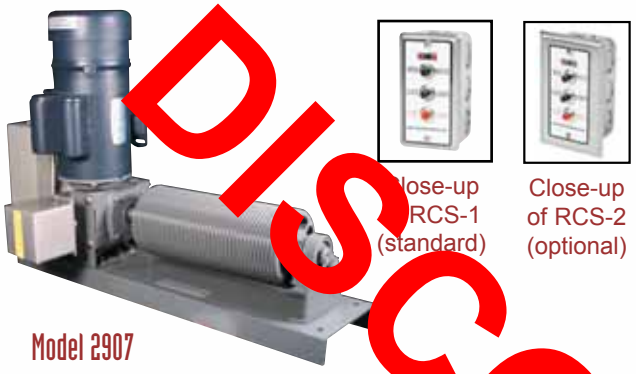
Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

THERMAL OVERLOAD
Built into some motors to help prevent possible damage to the motor due to overheating (furnished on some single phase motors only).

SUGGESTED SPECIFICATIONS FOR MODEL 963
Curtain machines shall be fully automatic type equipped with 1/4 HP special reversing motor connected through V-belt drive to single reduction gear unit, on the output shaft of which shall be mounted an un-grooved cable spool delivering a cable speed of 18 feet per minute. Remote control shall provide reversing action at any point along elevated travel and shall be composed of three-position, stationary maintained contact toggle-type switch. Integral rotary limit switch assembly shall be driven from output of gear reduction unit. Machine shall be equipped with disconnect switch, automatic overload protective breaker, and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on a steel base. Model 963 as manufactured by Automatic Devices Company of Allentown, PA.

SILVER SERVICE® Model 2907
HERCULES® Models 7007, 8007 and 9007



Model 2907

Close-up of RCS-1 (standard)

Close-up of RCS-2 (optional)

NOTE: Guard not shown. Required for ETL compliance.

ETL LISTED 56613 — DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS Conforms To ANSI/UL-325	Model No.			
	2907	7007	8007	9007
Horsepower	1/2	1	1-1/2	2
Volts	115 or 230	115 or 230	230	230
Phase	1 or 3	1 or 3	3	3
Lifting Speed (fpm)	54	54	54	54
Maximum Cable Pull (lbs.)	100	200	400	500
Control Voltage	24 VAC	24 VAC	24 VAC	24VAC
Number Wires for Remote Control (Plus Ground)	4	4	4	4
App. Overall Dimensions (inches)				
Length	31	31	31	32.625
Width	24.25	4.25	24.25	26
Height	18.75	18.75	18.75	20
App. Shipping Weight (lbs.)	260	265	300	300

These machines are not to be used for the lifting,supporting, or transporting of people. These machines should not be used to move objects over areas where people are present unless suitable safety devices are installed. Other data can be found in the Curtain Machine Selector Guide (page 86).

DISCONTINUED

Models 2907, 7007, 8007 and 9007 ranging in ... power from 1/2 to 2, are generally considered the select fixed ... speed lift machines of the ADC line. These units are capable of ... ing, without the need of counterweights, substantial loads in accordance with established maximum weights. Each machine is equipped with a built-in magnetic brake and grooved cable drum to facilitate precise positioning. Complete with magnetic friction brakes, Stop, Start and Reverse control, direct drive and limit switches, these machines are completely versatile.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Constructed of powder coated steel 6" diameter x 14" long. Coated wire-center cable must be used. Provides up to 70' of cable travel.

MAGNETIC FRICTION BRAKE
Furnished as either part of the motor (brakemotor) or inline with the motor and gear reduction unit. Helps to provide precise stopping in both directions.

THREE PHASE FIXED SPEED MOTORS
Standard with models 8007 and 9007, also available as options with models 2907-T, 7007-T.

CONTROL STATIONS
Three-button type. Provide Stop\Start\Reverse control from any point of travel. No limit to the number of remote control stations that can be used. Two supplied with each machine, one fixed to the machine and one for use as a remote control station.

MAGNETIC CONTACTOR
Provides Start/Stop/Reverse control for the machine. Compatible with most automation systems. LVCS Low Voltage Control System, 24 VAC standard.

ROTARY LIMIT SWITCH
Allows ... user defined pre-set stops for the "Full Raise" and "Full Lower" positions.

DISCONNECT SWITCH
Toggle switch which removes power to machine's internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

THERMAL OVERLOAD
Built into some motors to help prevent possible damage to the motor due to overheating (furnished on some single phase motors only).

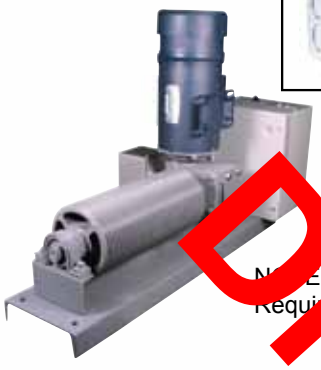
SAFETY RELAY
Prevents single phase motor from continuing to run in the same direction when the push-buttons are pressed at the same instant as the limit switch is tripped.

SUGGESTED SPECIFICATIONS FOR MODELS 2907, 7007, 8007 OR 9007

Curtain machines shall be fully automatic type equipped with ... HP motor, with built-in or inline magnetic friction brake, right angle gear reducer on the output drive shaft of which shall be mounted elevator-type grooved cable drum and outboard bearing to support and align extended shaft. Drum shall deliver a lifting cable speed of 54 feet per minute. Mechanism shall include magnetic contactor to provide reversing action at any point along the travel and shall include three-button control station mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from control box on mechanism to remote control switch. Integral rotary limit switch shall be driven from output shaft of gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on heavy steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

SILVER SERVICE® Model 2907-TV
HERCULES® Models 6507-TV,7007-TV, 9007-TV

Model 2907-TV



Close-up of RCS-TV (wall [standard] and flush mount [optional] units shown)

NOTE: Guard not shown. Required for ETL compliance.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.			
	2907TV	6507TV	7007TV	9007TV
Horsepower	1/2	3/4	1	2
Input Voltage/Phase	120/220 1 208/230 3	120/220 1 208/230 3	120/220 1 208/230 3	208/230 3
Cable Speed (fpm)	0-54	0-54	0-54	0-54
Number of Remote Wires (Plus Ground)	6	6	6	6
Lift Cap	100	150	200	500
Control Voltage	24 VAC	24 VAC	24 VAC	24 VAC
Length With Guard	38	38	38	38
Width With Guard	25	25	25	25
Height With Guard	19	19	19	19
Length Without Guard	38	38	38	38
Width Without Guard	25	25	25	25
Height Without Guard	19	19	19	19
Shipping Weight With Guard	280	283	287	330
Shipping Weight Without Guard	275	278	282	325

These machines are not to be used for the lifting,supporting, or transporting of people. These machines should not be used to lift objects over areas where people are present unless suitable safety devices are installed. Other data can be found in the Curtain Machine Selector Guide (page 86).

DISCONTINUED

Models 2907-TV, 6507TV, 7007-TV, and 9007-TV ranging in horsepower from 1/2 to 2, are the premium machines of the ADC line. Equipped with electronic frequency drive these machines are the most versatile in the ADC line. Designed for lift applications, these machines offer a multitude of parameters that can be programmed in the field to meet a variety of applications. Parameters such as run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time are easily changed right at the drive. Each machine is provided with deceleration limit switches which allow the machine to decelerate to a stop rather than abruptly stop at the end of its travel. These machines also feature emergency overtravel limit switches and emergency stop push buttons which bypass the deceleration ramp and shut the machine off immediately. The operation of these machines is Start/Stop/Reverse from any point of travel and low voltage controls is standard. If versatility is a project requirement, this series of machines is the best option.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Constructed of powder coated steel 6" diameter x 14" long, grooved for 3/16" cable. Coated wire-center cable must be used. Provides up to 70' of cable travel.

MAGNETIC FRICTION BRAKE
Furnished as part of the motor (brakemotor) or inline with the motor and gear reduction unit and helps to provide precise stopping in both directions.

VARIABLE SPEED
(0-72 RPM) Speed cannot be adjusted while machine is operating without effecting limit positions.

CONTROL STATIONS
Four-button type. Provide Stop\Start\Reverse control from any point of travel. No limit to the number of remote control stations that can be used. Two supplied with each machine, one fixed to the machine and one for use as a remote control. Speed dial at remote control station available upon request. 24 VAC.

ROTARY LIMIT SWITCH
Allows for user defined decelerated pre-set stops for the "Full Raise" and "Full Lower" positions. The limit assembly is also supplied with emergency overtravel limit switches which bypass the deceleration ramps and shut the machine off immediately.

DISCONNECT SWITCH
Toggle switch which removes power to machine's internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

SUGGESTED SPECIFICATIONS FOR MODELS 2907-TV, 6507-TV, 7007-TV, OR 9007-TV

Curtain machines shall be fully automatic type equipped with ... HP motor, with magnetic friction brake, right angle gear reducer on the output drive shaft of which shall be mounted elevator-type grooved cable drum and outboard bearing to support and align extended shaft. Drum shall deliver a variable cable speed of 0 to 54 feet per minute. Mechanism shall include electronic frequency drive to provide variable speed and reversing action at any point along the travel and shall include four-button control station mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from control box on machine to the remote control station. Integral rotary limit switch shall be driven from output shaft of gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on heavy steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

Model 9507-TV

DISCONTINUED

Close-up of RCS-TV (wall [standard] and flush mount [optional]units shown)

NOTE: Guard not shown. Required for ETL compliance.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No. 9507TV
Horsepower	5
Maximum Cable Pull	1200 lbs.
Input Voltage/Phase	208/230/3
Cable Speed (fpm)	0-54
Number of Remote Wires	6
Length	47"
Width	33"
Height	40"
App. Shipping Weight (lbs.)	350 lbs.

Hercules® Model 9507TV is the most powerful lift machine of the ADC line. Equipped with electronic frequency drive control, this machine provides versatility and protection for the most demanding lift applications. The 9507TV machine offers a multitude of parameters that can be programmed in the field to meet almost any project requirement speed, maximum obtainable speed, acceleration ramp time and deceleration ramp time are easily changed right at the drive. The machine is also equipped with deceleration limit switches which allow the machine to gradually decelerate to a stop, dissipating inertial energy rather than abruptly stopping at the end of its travel. The machine does feature emergency overtravel limit switches and fast stop push buttons which bypass the deceleration ramp and shut the machine off immediately in the event of a problem during operation. The operation of these machines is Start/Stop/Reverse/Fast Stop from any point of travel and low voltage controls is standard. If versatility and power are a requirement, the Model 9507TV is an excellent choice.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM

Assures accurate travel and eliminates problems associated with pile-on type drums. Constructed of painted steel 6" diameter x 14" long, grooved for 1/4" cable. Output support flange bearing eliminates shaft deformation under maximum rated load.
Provides 55 feet of cable travel.

MAGNETIC FRICTION BRAKE

Furnished as an integral part of the motor (brakemotor) this device helps provide precise stopping in both directions of travel. Brake is mechanically engaged at zero voltage (power off).

CONTROL STATIONS

Four-button type. Provide Stop/Start/Reverse/Last Stop control from any point of travel. No limit to the number of remote control stations that can be used. Two supplied with each machine, one fixed to the machine and one for use as a remote control. 24VAC.

FREQUENCY CONTROL DRIVE

Provides electronic control of the 3 phase inverter duty motor used to power the machine. The drive allows for user definable parameters of operation such as: run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time. The drive also provides protection for overcurrent, undervoltage, loss of phase, etc conditions. Drives can be programmed via the inputs on the face of the drives.

ROTARY LIMIT SWITCH

Rotary cam type mechanical limit switches allow for user defined pre-set stop (deceleration) for the "Full Raise" and "Full Lower" positions. The limit assembly is also supplied with emergency overtravel limit switches which bypass the control's deceleration ramps and shut the machine off immediately.

OVERLOAD PROTECTIVE BREAKER

This device automatically protects the machine, track and curtain against effects of accidental overload due to mechanical or amperage overloading of the machine. This device is also used to remove power from the machine. This device must be manually reset.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

SUGGESTED SPECIFICATIONS FOR MODELS 9507-TV

Lift machine shall be fully automatic type equipped with 5 HP motor, with magnetic friction brake, right angle gear reducer on the output drive shaft of which shall be mounted elevator-type grooved cable drum and outboard bearing to support and align extended shaft. Drum shall deliver a variable cable speed of 0 to 54 feet per minute. Machine shall be direct drive with no couplings, belts, or chains on the drive section of the machine. Brakemotor shall be mounted directly to the gear reduction unit which shall incorporate a single solid steel shaft on its output to which the grooved steel drum shall be affixed. The solid steel shaft shall be supported by the gear reduction unit on one end and a flange bearing on its remaining end. Mechanism shall include an electronic frequency drive to provide variable speed and reversing action at any point along the travel and shall include four-button control station mounted on unit and one for use as a remote control. Control switch wiring shall be accomplished through a low voltage system running from the control box on the machine to the remote control station. Integral rotary limit switches shall be driven from output shaft of gear reduction unit. Machine shall be equipped with overload protective and electronic frequency drive protection. The entire mechanism shall be mounted on heavy steel base. Model 9507TV as manufactured by Automatic Devices Company of Allentown, PA.

AUTODRAPE® Models 933 and 1453
SILVER SERVICE® Model 2903
HERCULES® Model 6503

Close-up of RCS

Model 933

NOTE: Guard not shown.
Required for ETL compliance.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.			
	933	1453	2903	6503
Horsepower	1/4	1/3	1/2	3/4
Volts (Power and Control)	115	115	115	115
Phase	1	1	1	1
Main Cable Lifting Speed (fpm)	18.6	18.6	18.6	18.6
Secondary Cable Speed (fpm)	2.7	2.7	2.7	2.7
Main Cable Max. Cable Pull (lbs.)	CONTACT FACTORY FOR RATINGS			
Number Wires for Remote Control (Plus Ground)	3	3	3	3
App. Overall Dimensions (inches)				
Length	34	34	34	34
Width	11	11	11	11
Height	17	17	17	17
App. Shipping Weight (lbs.)	215	215	220	225

These machines are not to be used for the lifting,supporting, or transporting of people. These machines should not be used to lift objects over areas where people are present unless suitable safety devices are installed. Other data can be found in the Curtain Machine Selector Guide (page 86).

DISCONTINUED

Models 933, 1453, 2903 and 6503 constitute a new development in lifting mechanisms. These are essentially motorized winches for raising and lowering gym dividers using single or double line rigging. These models can also be used to individually operate multiple line lift curtains and for this application can be installed side by side in a relatively small area for mounting either on the floor or overhead. These units are not equipped with magnetic friction brakes so some drifting may occur. A high gear reduction is used to help limit this drift and provide more precise stopping. Stop, Start and Reverse control is provided by a reversing motor and three-position toggle type control switch. Integral rotary limit switches allow for pre-set "Full Raise" and "Full Lower" positions.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Constructed of coated steel 8" diameter x 12" long. Coated wire-center cable must be used. 1" diameter x 2" long secondary cable spool also provided.

EMERGENCY HAND CRANK
For conversion to hand operation in case of mechanical or power failure.

CONTROL STATION
Three-position maintained toggle type. Only one remote control station can be used with this model machine, this being wired temporarily to machine at the factory for making limit switch settings during installation.

BRAKING EFFECT
Provided by the gear reduction unit only. A magnetic friction brake, which helps provide more precise stops, is available as an option.

ROTARY LIMIT SWITCH
Allows for user defined pre-set stops for the "Full Raise" and "Full Lower" positions. Fully adjustable cam type assembly.

DISCONNECT SWITCH
Toggle switch which removes power to the machine's internal circuitry.

Power will still be active at the machine terminal strip and on the line side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

THERMAL OVERLOAD
Built into some motors to help prevent possible damage to motor due to overheating (furnished on some single phase motors only).

SUGGESTED SPECIFICATIONS FOR MODELS 933, 1453, 2903 OR 6503

Curtain machines shall be fully automatic type equipped with ... HP special reversing motor connected through V-belt drive to single reduction gear unit, on the output shaft of which shall be mounted elevator-type cable drum delivering lifting speed of 18.6 feet per minute and secondary spool delivering cable speed of 2.7 feet per minute. Remote control station shall provide reversing action at any point along elevated travel and shall be composed of three-position, maintained toggle-type switch. Rotary limit switch shall be driven from output shaft of gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker, and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on a steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

AUTODRAPE® Model 1452
SILVER SERVICE® Model 2[illegible]
HERCULES® Model 65[illegible]

Close-up of RCS (standard MCS Models)

Close-up of RCS-1 (standard MCS Models)

Close-up of RCS-2 (optional MCS Models)

MCSA Optional Control

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.		
	1452	2902	6502
Horsepower	1/3	1/2	3/4
Volts (Power and Control)	120	120	120
Phase	1	1	1
Lifting Speed (fpm)	29	29	29
Maximum Lift Capacity (lbs.)	150	200	300
Number of Wires to Remote (Plus Ground)	3	3	3
Length	24	24	24
Width	9	9	9
Height	10	10	10
Shipping weight	85	85	90

All data listed above based on 4" diameter spools.

These machines are not to be used for the lifting,supporting, or transporting of people. These machines should not be used over areas where people are present unless suitable safety devices are installed. Neither is supplied as a standard part of the unit. Other data will be found in the Curtain Machine Selector Guide (page 86).

DISCONTINUED

Models 1452, 2902 and 6502 are designed for m[illegible]ing directly to a steel beam by means of compression clamps. The machine's output shaft is coupled directly to a solid steel shaft (Model ST-1) and is supported by pillow blocks (Mo[illegible] BBA-3) along its length from a common steel beam. Painted steel spools (Model SP-1) are attached to the steel shaft and the individual lift lines are then attached to these spools. These units are equipped with motors which provide instantaneous stop, start, and reverse action from any point of travel. Integral rotary limit switches provide user definable pre-sets for the "Full Raise" and "Full Lower" positions. The exact size of the supporting beam must be supplied at time of order.

OUTSTANDING FEATURES:

CONTROL SWITCH
Three-position maintained toggle type (non-MCS). Only one remote control station can be used with this model, this being wired temporarily to machine at the factory for making limit switch settings during installation. Magnetic Control System (MCSA) and Low Voltage Control System (LVCS), available as options. These options allow the use of any number of remote control stations (MCS Models only).

*See Mechanical Gym Equipment Cut Sheet for additional information.

BRAKING
[illegible]duced by gear reduction only, so some drifting may occur. [illegible]netic friction brakes, which provide more precise stops, are available as an option.

ROTARY LIMIT SWITCH
Allows [illegible] user defined pre-set stops for the "Full Raise" and "[illegible]er" positions. Fully adjustable cam type assembly.

DISCONNECT SWITCH
Tog[illegible]witch [illegible]ich removes power to the internal circuitry.

Power [illegible] still be active at the machine terminal strip and on [illegible]he side [illegible]he disconnect switch. To completely remove [illegible]ow[illegible]m the machine for servicing, power must be shut o[illegible] its so[illegible] and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type [illegible]elps pr[illegible] machine, track and curtain against effects of acci[illegible]al ove[illegible]oad. Must be manually reset.

THERMAL OVERLOAD
Built into some motors [illegible]p prevent possible damage to motor due to overheating (furnished on some single phase motors only).

SUGGESTED SPECIFICATIONS FOR MODELS 1452, 2902 OR 6502
Curtain machines shall be fully automatic type equipped with ... HP reversing motor directly connected to single reduction gear unit. Remote control switch shall provide reversing action at any point along elevated travel and shall be composed of three-position, maintained toggle-type switch. Integral rotary limit switch shall be driven from output shaft of gear reduction unit. Machine shall be equipped with disconnect switch and overload protective breaker. The entire mechanism shall be mounted on a steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

AUTODRAPE® Models 940 and 1460
SILVER SERVICE® Model 2910

Model 940

Close-up of RCS-1 (standard)

Close-up of RCS-2 (optional)

NOTE: Shown with Sprocket Guard. Required for ETL compliance.	Model No.		
	940	1460M	2910
Horsepower	1/4	1/3	1/2
Volts	120	120	120 or 220
Phase	1	1	1
Cable Speed (fpm)	18	18	18
Curtain Separation Speed (fps)	0.6	0.6	0.6
Number Wires for Remote	4	4	4
Control Voltage (Plus Ground)	24 VAC	24 VAC	24 VAC
Length	18	18	18
Width	18	18	18
Height	27	27	27
App. Shipping Weight (lbs.)	140	140	150

Other data can be found in the Curtain Machine Selector Guide (page 86).

Listed* UL 717E

Curtain Operator *applicable only to single phase units when UL approved guards are installed.

ETL LISTED 56613
DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS
Conforms To ANSI/UL-325

Specially designed for side-masking operations, these machines are equipped with sprocket drives in place of drum drives. Low voltage control is standard on these machines to ease connection to theater automation systems. Machines are full Stop, Start, Reverse operation and can be stopped or reversed from any point of travel. Cable speed is reduced in order to provide more precise stopping of the masking panels. Roller chain and turnbuckles are obtainable as options.

OUTSTANDING FEATURES:

SPROCHET DRIVE
For positive movement and accurate positioning of screen masking. Magnetic brake available as an option. **Model RC-2 (41 Pitch) roller chain must be used with these machines.**

DRIVING DOG
Releases sprocket from drive shaft allowing sprocket to spin freely for manual operation of the track system.

CONTROL SWITCHES
Three-button type and marked Open, Close and Stop. No limit to number of control stations that can be used. Two supplied with each machine, one mounted to the machine and one to be used as a remote control station. Control voltage on these units is 24 VAC standard.

ROTARY LIMIT SWITCHES
Allow for user definable pre-set stop for the "Full Close" and "Full Open" positions. Fully adjustable cam type assembly.

DISCONNECT SWITCH
Toggle switch which removes power to machine's internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.

THERMAL OVERLOAD
Built into some motors to help prevent possible damage to the motor due to overheating.

SAFETY RELAY
Prevents single phase motor from continuing to run in the same direction when a push-button is pressed at the same instant the limit switch is tripped.

SUGGESTED SPECIFICATIONS FOR MODELS 940, 1460M OR 2910
Curtain machines shall be fully automatic type with ... HP motor connected through V-belt drive to gear unit, on the output drive shaft of which shall be mounted a sprocket delivering a cable speed of 18 feet per minute equivalent to curtain separation speed of 0.6 feet per second. Mechanism shall include low voltage magnetic control system to provide reversing action at any point along the travel and shall include three-button control switch mounted on unit and one for use as a remote control station. Control switch wiring shall be accomplished through low voltage system running from machine control box to remote control switch. Limit switch assembly shall be mounted integrally with gear unit. Safety guards shall be provided. Machine shall be equipped with disconnect switch, automatic overload protective breaker, and facility for conversion to manual operation. The entire mechanism shall be mounted on a steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

AUTODRAPE® Models 936SFR and 963S

Model 936SFR

Close-up of RCS-1 (standard)

Close-up of RCS-2 (optional)

NOTE: Shown With And Without Guard. Guard required for UL/ETL compliance.	Model No.	
	936SFR	963S
Horsepower	1/3	1/3
Volts	120 Vac	120 Vac
Phase	1	1
Drum diameter (inches)	4	6
Cable speed (fpm)	27	40
Number of control wires (Plus Ground)	4	4
Control Voltage	24 VAC	24 VAC
Approximate overall dimensions:		
Length	26	26
Width	12	12
Height	16	16
App. Shipping Weight (lbs.)		

Listed* 717E

Curtain Operator *applicable only to single phase units when UL approved guards are installed.

56613

ETL LISTED
DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS
Conforms To ANSI/UL-325

Models 936SFR and 963S are designed to operate side and top screen masking panels. These machines are equipped with either a 4” diameter steel (936SFR) or 6” diameter aluminum (963S) grooved cable drum to assure positive positioning of the masking panels. Standard on these machines is the Model MCS control circuit which provides Stop/Start/Reverse control from any point of travel and which interfaces to many automation systems. Control voltage of 24 Vac makes the machines compatible with most automation systems on the market. These machines can also be equipped with our optional multiple-stop controls allowing the user to preset various formats such as slide, flat, scope etc.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM
Assures positive drive without cable slippage. Constructed of either aluminum 6” diameter x 5” long or steel 4” diameter x 4” long. Coated wire-center cable must be used. Cable size (1/4” max) must be specified when ordering. Drum must be at least 10’ from track live-end pulley, or last pulley in system to allow cable to wind properly on drum.

CONTROL STATIONS
Three-button type and marked Open, Close and Stop. To reverse direction appropriate button is pushed. No limit to number of control stations that can be used with this type of machine. Two supplied with each machine, one on the machine and one for use as a remote control station. 24 VAC.

ROTARY LIMIT SWITCH
Allows for user defined pre-set stops for the "Full Raise" and "Full Lower" positions. Fully adjustable cam type assembly.

MAGNETIC CONTACTOR
Provides Start/Stop/Reverse control for the machine. Compatible with most automation systems. LVCS Low Voltage Control System 24 VAC standard.

DISCONNECT SWITCH
Toggle switch which removes power to machine’s internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for Servicing, power must be shut off at its source And locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER
Helps protect the machine, track and curtain against the effects of accidental overload.

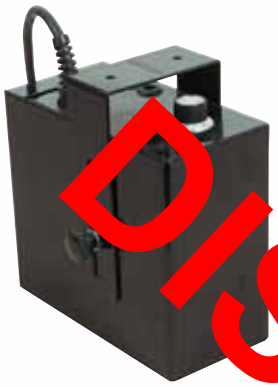
THERMAL OVERLOAD
Built into some motors to help prevent possible damage to the motor due to overheating (furnished on some single phase motors only).

SAFETY RELAY
Prevents single phase motor from continuing to run in the same direction when a push-button is pressed at the same instant the limit switch is tripped.

SUGGESTED SPECIFICATIONS FOR MODELS 936SFR, 963S

Curtain machines shall be fully automatic type with 1/3 HP motor connected through V-belt drive to gear unit, on the output drive shaft of which shall be mounted elevator-type grooved cable drum. Mechanism shall include magnetic contactor to provide reversing action at any point along the travel and shall include three-button control stations mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from the machine’s control box to the remote control station. Limit switch assembly shall be mounted integrally with gear unit. Safety guard shall be provided over V-belt drive and limit switch chain drive. Machine shall be equipped with disconnect switch, overload protective breaker. The entire mechanism shall be mounted on steel base. Model 936SFR or 963S as manufactured by Automatic Devices Company of Allentown, PA.

VARIABLE SPEED TOM THUMB® Model 579



Model 579

CS-2
Standard
Remote Control

Listed*
UL 717E

Curtain Operator
*applicable only to single phase units when UL approved guards are installed.

Track Mounted
Magnetic Limit Switches

WRC-1
Optional Wireless Remote Control

DISCONTINUED

The Model 579 was designed as a versatile and economical solution for small residential and light commercial drapery track applications. Small in size and big in features, the Model 579 can operate tracks up to 20' in length and curtain weights up to 60 pounds. Track mounted limit switches provide positive end of travel signal and allow for a moderate amount of cable slippage. This machine also includes a built in timer to ensure that the machine will shut off even if the cord slips or breaks during operation. Incorporating features such as variable speed, user definable maximum and minimum speed settings and optional wireless remote control makes this one of the most versatile drapery operators on the market today.

OUTSTANDING FEATURES:

DRIVE WHEEL
Aluminum N-grooved drive wheel designed to help prevent cable slippage. Wire center cable must be used with this machine.

IDLER SYSTEM
Composed of ball-bearing equipped wheels which increase load capacity of the machine and help assure proper cable alignment.

POWER CONNECTION
Connects to a standard 120 VAC receptacle. Note that if WRC-1 is used with this machine, 2 receptacles will be needed.

CONTROL
Stop/Start/Reverse from any point of travel. Integral DC drive board provides variable speed (0 to 40 fpm) as well as pre-set maximum obtainable speed and minimum obtainable speed. Control voltage is 24 VDC. Standard control is from a 3 push button station labeled Open, Close and Stop. Any number of remote control stations can be used. Speed is varied from a dial located on the machine. Optional RF based wireless remote control (Model WRC-1) can be added.

LIMIT SWITCHES
Hard-wired magnetic track mounted type. If the machine is not ordered with a track, brackets must be fabricated for attaching the limit switches to the track and the magnets to the track's master carriers. Limit switch voltage is 24 VDC.

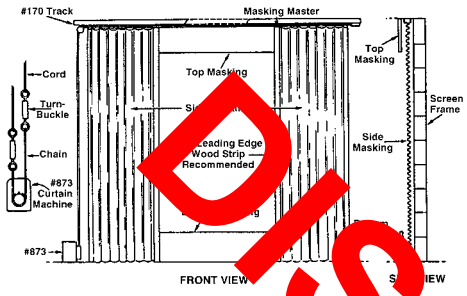
OVERLOAD PROTECTIVE FUSE
Mounted to the machine and accessible from the outside of the machine. This device helps protect the machine, track and drapery against the effects of accidental overload.

PHYSICAL CHARACTERISTICS
Size is 4-1/2" wide (including mounting bracket) x 5-1/2" deep x 7' high. Fits into a pocket 6" wide x 8" high. Weight is 9 pounds. Finish is black powder coat.

Wheel drive machines are not recommended for curved track applications.

SUGGESTED SPECIFICATIONS FOR MODEL 579
Curtain machines shall be fully automatic type equipped with 18 watt motor and built-in gear reduction unit on the output drive shaft of which shall be mounted an N-grooved traction wheel delivering a variable cable speed of 0 to 40 feet per minute equivalent to curtain separation speed of 0 to 1.5 feet per second. Mechanism shall include a hardwired low voltage remote control station of three-button type which shall provide reversing action at any point along the travel. Machine shall be equipped with ball-bearing idler wheels, automatic overload protective fuse, automatic shut off after predefined period, and magnetic track mounted limit switches. The mechanism shall be furnished with a mounting bracket designed for floor, wall or ceiling mounting. Model 579 as manufactured by Automatic Devices Company of Allentown, PA.

TOM THUMB® Models 873, 873-MCS, 1003 and 1003-MCS



Typical Masking Arrangement [illegible] Model 8[illegible]

Close-up of RCS

Close-up of [illegible]-2 (M[illegible] Model [illegible]y)

Model 87[illegible]MCS

NOTE: Gu[illegible] not shown. Required for ETL compliance.

Models 873, 873-MC[illegible], 10[illegible]3 and 1003-MCS were spe[illegible]cally designed as comp[illegible]t masking for small motion picture screens and home theaters. These mechanisms are equipped with a sprocket drive to prevent cable slippage and can be installed in virtually any location, since they occupy little space. These machines have magnetic brakes for positive stopping and are quiet in operation. Models 873-MCS and 1003-MCS include low voltage magnetic control systems for controlling from more than one location and to ease connection to automation systems.

OUTSTANDING FEATURES:

DRIVING SPROCKET
Used to provide precise stopping and to eliminate cable slippage. Sprockets are designed for 25 pitch roller chain (Model RC-1) which is obtainable as an option.

LOW VOLTAGE CONTROL SYSTEM
On Models 873-MCS and 1003-MCS, 24 Volt DC control circuits.

ROTARY LIMIT SWITCHES
Provide user definable pre-set stops for the "Full Open" and "Full Closed" positions. Fully adjustable cam type assembly.

	Model No.			
	873	873MCS	1003	1003MCS
Horsepower	1/30	1/30	1/8	1/8
Volts	120	120	120	120
Phase	1	1	1	1
Cable Speed (fpm)	25	25	20	20
Number of Wires to Remote (Plus Ground)	3	4	3	4
Length	10	10	13	13
Width	5.5	5.5	8	8
Height	10.5	10.5	11	11
Shipping Weight (lbs.)	20	35	40	45

These machines are not to be used for the lifting,supporting, or transporting of people. These machines should not be used to move objects over areas where people are present unless suitable safety devices are installed. Other data can be found in the Curtain Machine Selector Guide (page 86).

Listed* UL 717E

Curtain Operator *applicable only to single phase units when UL approved guards are installed.

ETL LISTED 56613 DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS Conforms To ANSI/UL-325

CONTROL SWITCH for Models 873, 1003, 873-MCS and 1003-MCS
A sin[illegible] three-position maintained toggle switch, it being wired te[illegible]ora[illegible]y at the factory to the machine for making limit switch [illegible]tings du[illegible]g installation. Model 873-MCS uses three-button [illegible]ype con[illegible] stations labeled "Open", "Close", and "Stop". Model 1003-[illegible]S al[illegible]uses three-button type. Two supplied, one on ma[illegible]e a[illegible]e for use as a remote control station.

OVERLOAD PROTE[illegible]VE FUSE
Helps prote[illegible] ma[illegible]e, track and curtain against effects of accidental ov[illegible]load.

AUTOMATIC THERMAL O[illegible]RLOAD
Built into motor to he[illegible] preve[illegible] pos[illegible]le damage to the motor due to overheating.

RECOMMENDATIONS
Track should either be mounted [illegible]om [illegible]ngers [illegible]n screen frame or directly suspended from overhead [illegible]ucture. [illegible] swaying motion should be eliminated. Maximum leng[illegible]f each [illegible]lf of track should not exceed 16 feet. Operating line must be [illegible]pported between track sections in cross-stage applications to prevent sagging of lines (see typical masking arrangement illustration above). Masking type master carriers should be used to adequately support wood strip leading edge. Machine and live end pulley on track should be in vertical alignment to assure proper operation of chain and sprocket.

SUGGESTED SPECIFICATIONS FOR MODELS 873, 873-MCS, 1003 AND 1003-MCS
Curtain machines shall be of fully automatic type equipped with ... HP gearmotor with external magnetic brake on the output drive shaft of which shall be mounted driving sprocket delivering a cable speed of ... feet per minute. Mechanism shall include remote control switch of three-position maintained toggle type (three-button type used with Models 873-MCS and 1003-MCS) to provide reversing action at any point along the travel. Rotary limit switch assembly shall be mounted integrally with gear unit. Machine shall be equipped with idler sprockets, automatic overload protective fuse and facility for conversion to hand operation. The entire mechanism shall be mounted on base for securing to floor or other appropriate means of attachment. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

DISCONTINUED

TOM THUMB® Models 872 and 872-MCS

Model 872

Close-up of RCS for Models 872 and 872-MCS

NOTE: Shown with guard which is required for UL/ ETL compliance.	Model No.	
	872	872-MCS
Horsepower	1/30	1/30
Volts	120	120
Control Volts	120	24 VAC
Cable Speed (fpm)	50	50
Curtain Separation Speed (fps)	1.7	1.7
Number of Control Wires (Plus Ground)	3	4
Length	10	10
Width	5.5	5.5
Height	10.5	10.5
App. Shipping Weight (lbs.)	25	30

Other data can be found in the Curtain Machine Selector Guide (page 86).

Listed* UL 717E

Curtain Operator *applicable only to single phase units when UL approved guards are installed.

DISCONTINUED

Models 872 and 872-MCS represent the very finest quiet and dependable machines for light weight draw curtains. These machines are designed to be mounted on the floor, or from a wall bracket, behind the stack portion of the curtain.

OUTSTANDING FEATURES:

DRIVE WHEEL
An N-grooved 3 - 1/2" diameter aluminum wheel is used to help limit cable slip. Coated wire-center cable must be used with these machines.

CONTROL SWITCH
Model 872 utilizes a single full voltage maintained three-position toggle switch and integral rotary limit switches for control. Model 872-MCS utilizes a 3-push button low voltage (24 Volt DC) control station and limit switches for control. Any number of control switches can be used with Model 872-MCS machines, but only one control switch can be used with the Model 872 machine.

ROTARY LIMIT SWITCH
Allows for user defined pre-set stops for the "Full Open" and "Full Close" positions. Fully adjustable rotary cam type assembly.

IDLER SYSTEM
Composed of 2 ball-bearing equipped wheels which helps increase load capacity of machine and assure proper cable alignment.

WALL MOUNTING BRACKET
Obtainable as an option.

MANUAL OPERATION
Accomplished by simply operating the cord by hand in the event of mechanical or power failure.

OVERLOAD PROTECTIVE FUSE
Helps protect machine track and drapery against the effects of accidental overload.

AUTOMATIC THERMAL OVERLOAD
Built into motor to help prevent possible damage to motor due to overheating.

Wheel drive machines are not recommended for curved track applications.

SUGGESTED SPECIFICATIONS FOR MODELS 872 AND 872-MCS

Curtain machines shall be equipped with 1/30 HP gearmotor on the output drive shaft of which shall be mounted grooved traction wheel delivering a cable speed of 50 feet per minute equivalent to curtain separation speed of 1.7 feet per second. Mechanism shall include appropriate control assembly to provide reversing action at any point along travel. Machine shall be equipped with ball-bearing idler wheels and overload fuse. The entire mechanism shall be enclosed in casing for securing to floor or other appropriate means of attachment. Model 872 and 872-MCS as manufactured by Automatic Devices Company of Allentown, PA.

TOM THUMB® Models 1002 and 1002-MCS

Close-up of RCS for Models 100 and 1002-MCS

NOTE: Shown with guard which is required for UL/ ETL compliance.	Model No.	
	1002	1002-MCS
Horsepower	1/8	1/8
Volts	120	120
Control Voltage	120	24 VAC
Cable Speed (fpm)	47	47
Curtain Separation Speed (fps)	1.6	1.6
Number of Control Wires (Plus Ground, Class 2 circuit)	3	4
Length	13	13
Width	8	8
Height	11	11
App. Shipping Weight (lbs.)	40	40

Other data can be found in the Curtain Machine Selector Guide (page 86).

Listed* UL 717E

Curtain Operator *applicable only to single phase units when UL approved guards are installed.

ETL LISTED 56613 DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS Conforms To ANSI/UL-325

DISCONTINUED

Model 1002-MCS

The 1002 series TOM THUMBS® are designed for use in board and conference rooms or in applications that require more torque than a 872 series machine but less than the torque of a large stage machine. Used primarily with Model 113 SPECIFINE® and Model 220 TRAK-EZE® track systems, the Model 1002 is completely automatic and includes limit switches which provide user definable pre-set stops. Model 1002-MCS includes a low voltage magnetic control system for operation from more than one location and also to ease connection to automation systems.

OUTSTANDING FEATURES:

DRIVE WHEEL
An N-grooved 3-1/2" diameter driving wheel is provided to help limit cable slip. Coated wire-center cable must be used.

CONTROL SWITCH
Model 1002 uses a single full voltage three position maintained toggle switch, it being wired temporarily to the machine for making limit switch settings during installation. Note only one control switch can be used with the Model 1002 machine. Model 1002-MCS uses a three-push button type remote control station. Two supplied, one on the machine and one to be used as a remote control station.

DRIVING DOG
For conversion to hand operation in case of mechanical or power failure.

INTEGRAL ROTARY LIMIT SWITCHES
Allows for user defined pre-set stops for the "Full Open" and "Full Close" positions. Fully adjustable cam type assemblies.

IDLER SYSTEM
Composed of ball-bearing wheels which help increase the load capacity of machine and assure proper cable alignment.

OVERLOAD PROTECTIVE FUSE
Helps protect machine, track and drapery against effects of accidental overload.

AUTOMATIC THERMAL OVERLOAD
Built into motor and helps prevent possible damage to motor due to overheating.

Wheel drive machines are not recommended for curved track applications.

SUGGESTED SPECIFICATIONS FOR MODEL 1002 AND 1002-MCS

Curtain machines shall be fully automatic type equipped with 1/8 HP motor and built-in gear reduction unit on the output drive shaft of which shall be mounted an N-grooved wheel delivering a cable speed of 47 feet per minute equivalent to curtain separation speed of 1.6 feet per second. Mechanism shall include remote control switch of either three-position maintained toggle type, or three-button type to provide reversing action at any point along the travel. Machine shall be equipped with ball-bearing idler wheels, automatic overload protective fuse, and facility for conversion to hand operation. The entire mechanism shall be mounted on base for securing to floor or other appropriate means of attachment. Model 1002 as manufactured by Automatic Devices Company of Allentown, PA. (With magnetic control system, Model 1002-MCS.)

MODELS 1002-VED and 1002-VEA

Model 1002-VED

Close-up of RCS-2

NOTE: Guard not shown. Required for UL/ETL compliance.	Model No.	
	1002-VED	1002-VEA
Horsepower	1/8	1/8
Power Source	120 Vac	120 Vac
Control Voltge	24 VAC	24 VAC
Cable Speed (fpm)	31	
31		
Curtain Separation Speed (fps)	1	1
Number of Control Wires (Plus Ground, Class 2 circuit)	4	4
Approximate Dimensions (inches)		
Length	19	Varies
Width	9.5	9.5
Height	11.125	11.125
App. Shipping Weight (lbs.)	34	Varies

Listed* UL 717E

Curtain Operator *applicable only to single phase units when UL approved guards are installed.

ETL LISTED 56613 DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS Conforms To ANSI/UL-325

DISCONTINUED

Models 1002-VED and 1002-VEA are specifically designed to provide positive cable operation for light duty curved and straight tracks such as VERS-UTIL® Model 114. Maximum cable travel is 17 feet for Model 1002-VED and 30 feet for Model 1002-VEA. Both machines include limit switches and low-voltage magnetic controls for operation from more than one location.

OUTSTANDING FEATURES:

GROOVED CABLE DRUM

Assures positive drive without cable slippage. Model 1002-VED: 4" diameter x 4" long, Model 1002-VEA: 4" diameter, length varies. Coated wire-center cable must be used. Drum must be at least 10' from track live end pulley, or last pulley in system to allow cable to wind properly on drum.

CONTROL SWITCHES

Three-button type and marked Open, Close and Stop. No limit to number of control stations that can be used. Two supplied with each machine one attached to the machine and one for use as a remote control station.

ROTARY LIMIT SWITCHES

Allow for user defined pre-set stops for the "Full Open" and "Full Close" positions. Fully adjustable cam type assembly.

DISCONNECT SWITCH

Toggle switch which removes power to the machine's internal circuitry.

Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for Servicing, power must be shut off at its source and locked out according to OSHA regulations.

OVERLOAD PROTECTIVE BREAKER

Automatic type to protect the machine, track and curtain against effects of accidental overload. Must be manually reset.

MOTOR THERMAL OVERLOAD

Built into motor to help prevent possible damage to the motor due to overheating.

SUGGESTED SPECIFICATIONS FOR MODEL 1002-VED AND 1002-VEA

Curtain machines shall be fully automatic type equipped with 1/8 HP motor and built-in gear reduction unit on the output drive shaft of which shall be mounted a chain sprocket driving a grooved cable drum delivering a cable speed of 31 feet per minute equivalent to a curtain separation speed of 1.0 feet per second. Mechanism shall include a low-voltage magnetic control system to provide reversing action at any point along the travel and shall include three-button control stations. Limit switch assembly shall provide user definable pre-set stops for the Full Open and Full Close positions. Machine shall be equipped with overload protective fuse. The entire assembly shall be mounted on a steel base for securing to floor or other appropriate means of attachment. Model 1002-VED or Model 1002-VEA as manufactured by Automatic Devices Company of Allentown, PA.

Model LS-1 LogiStop® Multiple-Stop Limit Switch

	Model No. LS-1 LogiStop®
Input Power Source	120/220 Vac
Control Voltage	24 Vdc
Remote Input Type	Normally open momentary operation
Output Relay Rating	2 A at 250 Vac
Maximum Number of Stops	20
Minimum Number of Stops	2
Number of Allowable Remotes	Unlimited
Maximum Encoder RPM	40*
Mechanical Limit Switch Rating	20 A at 125 Vac

* Precision of the LogiStop® is affected by the speed of the machines as well as the diameter of the machine's final output device, such as a grooved drum or wheel. The larger the diameter of these devices, the less accurate the stop positioning will be.

DMX512 Compatible

DISCONTINUED

The Model LS-1 LogiStop® is a programmable multiple stop limit switch that can provide 2 to 20 preset stops on virtually any type of rotating machinery. The LogiStop's optical encoder is provided as part of a complete rotary assembly which also includes two mechanical limit switches to serve as over-travel sensors. The LogiStop® control components is provided in a NEMA 1 control box which includes an LCD display for monitoring instruction steps, factory numbered keypad to program the unit, a power-lost LED indicator, and fuse protection for the control circuit.

Programming a limit stop involves simply jogging the machine to the desired location, pushing the "ENTR" key and then pushing the key number you want to assign to this position.

The next time you need multiple-stops to meet project specifications, consider using the Model LS-1 LogiStop®.

OUTSTANDING FEATURES:

ELECTRONIC ERASABLE MEMORY
Maintains all limit and coast value settings even in the event of a power failure.

POWER LOSS PROTECTION
In the event of a loss of electrical power, the LogiStop® will enter into a fault state that will not allow the machine to operate from either the remote controls or the local keypads until the unit is reset. If power is lost, once it is restored, the red power loss LED located on the control box will illuminate signaling a loss of power has occurred. Once the mechanical system has been checked for manual movement during power loss, or for obstacles that may have been placed in its path, the unit can be reset by depressing the "STOP" and "ENTR" keys simultaneously.

OPTICAL ENCODER
Positioning is provided by a non-contact optical rotary encoder furnished as part of the complete limit switch assembly. The limit switch assembly also incorporates two mechanical limits which serve as over-travel sensors that are wired directly to the machine contactor coils, frequency drive inputs or other direct output devices which can bypass all LogiStop® instructions and shut the machine off directly.

OPTICALLY ISOLATED INPUTS
The input terminals, where remote control connections are made, are optically isolated from the board logic and are designed to allow for long wire runs to the remote control station(s).

RELAY OUTPUTS
Outputs of the LogiStop® are 3 each Form C relays; 1 for the "Open" direction, 1 for the "Closed" direction, and 1 to engage a motor friction brake at the end of travel.

PROGRAMMABLE COAST
Each direction of the unit can be programmed to allow for mechanical coast which may occur in lift systems or very heavy traverse systems. The coast of each direction is addressable individually to allow for the potential of greater drift in one direction than the other.

REMOTE CONTROL PROGRAMMING
During normal operation the LogiStop® cannot be reprogrammed from any remote control station. A password must be entered in order to allow a 15 minute window for reprogramming from a remote control station.

ELECTRO-MECHANICAL LIMIT SWITCHES
Multiple stop limit controls are also available in electro-mechanical configurations which use relay logic and mechanical limit switches in place of electronic components. A maximum of 4 intermediate stops are available in this configuration.

Model LS-1 LogiStop® Multiple-Stop Limit Switch

Some standard features of the LogiStop® control package are:

- Easy 3 step programming – jog to the desired position, press the PROG/ENTR key, then the number to be assigned to the current position.
- Onboard LCD display - displays items such as: current instruction, current count value, board state, diagnostic messages, etc.
- Power loss security – the machine remains locked-out after a loss of input power. The LS-1 must be manually reset after the system is checked. (programmable feature)
- Programmable Coast tolerance – adjusts the stop point to allow for inertial loads of the system. Independent for each direction. (programmable feature)
- Optically isolated low voltage control inputs.
- Non-volatile memory – programmed positions are stored in eprom memory which retains it memory even if power is lost.
- [illegible]m C output relays for connection to standard contactors, DC Drive boards or AC Inverter drives.
- For[illegible]C Brake relay for operation of external friction brake.
- [illegible]IP switch settings for enabling or disabling Power Loss lockout, DMX control, Remote Control [illegible]ogra[illegible] Auto-zero on limit activation and acceptance of full 513 byte packets only.
- Me[illegible]anical r[illegible]ry over-travel limit switches.
- Ke[illegible]ads for lo[illegible]al programming and control (cannot be removed from control box).
- Pro[illegible]ed in an N[illegible] type control box.

DMX Compatible

- DMX compati[illegible] – the[illegible]w L[illegible] is now capable of being directly connected to any DMX512 network.
- The LS-1 has terminal st[illegible] co[illegible]nec[illegible]ns for D+, D-, Shield, SP+ and SP- so the DMX network conductors can be wired dire[illegible]y to the b[illegible]d without the need for special connectors or plugs.
- The LS-1 also has a built in T[illegible]ination R[illegible]or for the DMX network.
- Base address for the DMX network is[illegible]t via on board rotary digital switches. Each stop position requires one DMX channel.
- The LS-1 program includes protection fro[illegible]nte[illegible] movement if channels are left high when others are taken low.

RS232 Terminal Emulation

- The LS-1 can be programmed and operated by an RS232[illegible]etwork [illegible] Terminal Emulation software.
- The LS-1 is provided with an on board standard 9-pin RS23[illegible].
- Information such as: current instruction, current location, count valu[illegible]to[illegible] transmitted back through the RS232 port and can be displayed on the terminal conn[illegible]ed to t[illegible] po[illegible]well as the LS-1 onboard display.
- The RS232 connection also allows the user to set a Dimension Value (DIMF)[illegible]ich is b[illegible]ed on the size of the output drum, spool or sprocket, and allows actual footage valu[illegible]instea[illegible] count values to be displayed.

Pushbutton and Contact Remote Controls:

- The LS-1 can be operated via any type of normally open, momentary operation pushbutton or contact set.
- Connections to the pushbutton or contact operators are via onboard removable, screw type terminal strip connectors.
- All contacts share a single signal or common conductor. Each function then requires a single additional connection.
- All functions may be addressed via the pushbutton or contact connections.
- Control voltage is 12 VDC and it is a Class 2 circuit.
- All inputs are optically isolated.
- Anywhere from 2 to 20 input pushbuttons or contact sets can be used to address 2 to 20 stop positions.
- Optional remote control stations available. Contact the factory for additional information.

DISCONTINUED

KEY-OPERATED SWITCHES are recommended for machines installed in facilities where the control switches might be tampered with or accidentally activated. At the turn of a key, the control circuit is shut on or off. The mechanism takes the place of the standard control switch. Model KOS-1 is a three-button type switch used with machines which include a magnetic control system (MCS). It has a brushed-chrome finish.

CABLE TENSION DEVICES

CTD-1
for draw curtain machines equipped with 5" x 10" drums or 7" x 10" drums

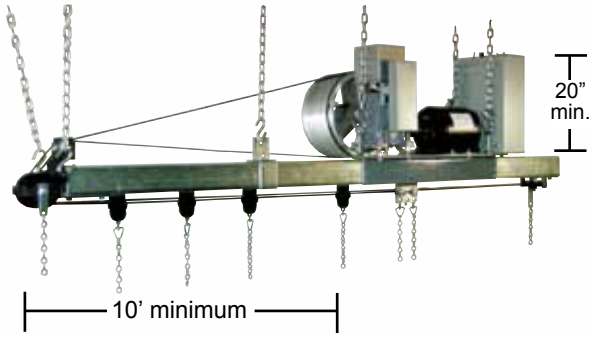
CTD-2
for draw curtain machines equipped with 6" x 14" drums or 8" x 12" drums

CABLE TENSION DEVICES help reduce cable slack on motorized track systems. They also act as cable guides by maintaining the operating cable within the grooves of the cable drum. A Cable Tension Device can be used with most ADC machines and is strongly recommended for use with all motorized curved tracks. When a CTD is furnished as part of a machine, an emergency hand crank is not supplied. For all other applications it must be ordered. Models 2905, 6505 and 7005 are equipped with cable tension devices as stan-dard equipment.

TRACK-MOUNTED LIMIT SWITCHES

TRACK-MOUNTED LIMIT SWITCHES are used to help assure positive and accurate stopping of a curtain at a pre-set position. One switch assembly is fitted to a track hanging clamp and attached to track at the "stacked" or "open" position. The other switch is fitted on the same track section at the center overlap so that the same master carrier engages both limit switches. Both limit switches are attached on the outside of the overlap and an additional 3" width is required to accommodate each limit switch at the outside of the channel. These switches can be used in conjunction with the integral rotary limit switches on the machine or as stand alone units. Regardless of cable slippage the curtain will invariably stop at the identical position on each traverse. This accessory is available for most ADC tracks where overtravel must be prevented. There is no limit to the length of travel. Limit switch settings are greatly facilitated with track-mounted switches as compared with machine-based limit switches.

FLYING MACHINES



FLYING MACHINES - most ADC machines are available in a "Flying" configuration. Flying machines are designed to be attached above and to the curtain track. The machine must be located a minimum 10' from the live end pulley. A special optional "Flying" live-end pulley must be used on the track to route the operating cables up and then parallel with the curtain track. The machines must be supported by overhead structural members. The machines attach to the curtain tracks for cord alignment only. Machine must be specified as "Flying Type" at time of order.

MACHINE ENCLOSURES

Model ME-1

MACHINE ENCLOSURES are supplied as standard equipment on all ETL, CUL, and CE listed machines. Also available as an option on most ADC curtain machines fabricated in the standard (vertical) configuration. Their function is to enclose and protect as much of the machine as possible from foreign particles and also provides a safety feature, helping prevent accidental contact with the moving parts of the machine. Fabricated from galvanized or painted sheet metal. Not required for some wall or track mounted machines.

NOTE: All UL/ETL listed machines must have guards installed in order to remain in compliance with UL/ETL standards.

SANDBAG TENSION PULLEY

SANDBAG TENSION PULLEY - this unique device was designed for use with long curtain tracks and tracks curved along their total length. The device resides on a section of unoccupied track located in the stack area of the curtain. Weight is applied to the sandbag as needed to provide constant tension on the operating cable during operation, helping assure proper alignment of the cable and the drum of the machine. It also assists in keeping the cable properly aligned and seated in the spindles, idlers or cable guides of the track. Composed of 3 pieces: tension pulley, sandbag pulley and sandbag. Available for Models 280, 170, 500 and 140 track systems.

Copyright © 2011 by Automatic Devices Company. Printed in U.S.A.