

Motorized Curtain Track

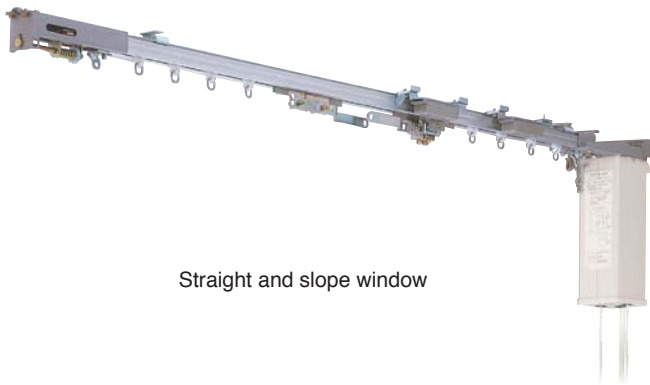
Powerful + Supertrac



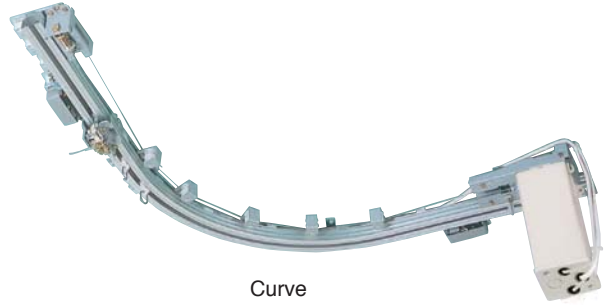
- Motorized curtain rail suitable for medium weight draperies.
- Available for straight, curve, arch, skylight and slope windows.

Powerful + Supertrac

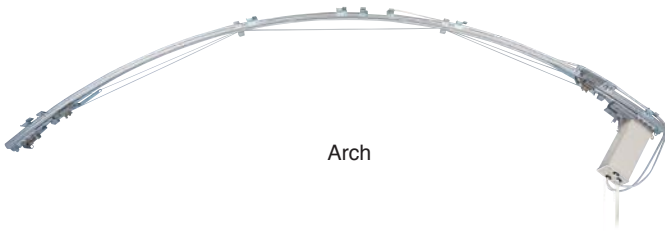
Powerful + Supertrac's Unique Features



Straight and slope window



Curve



Arch



Skylight

Available for straight, curve, arch, skylight and slope windows.

**Exceptionally durable wire used for motor drive transmission.
Passed a 10,000 cycle open-close test.**

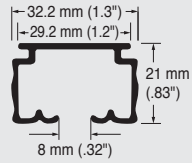
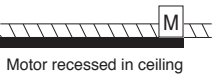
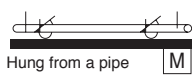
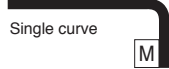
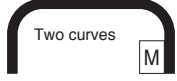
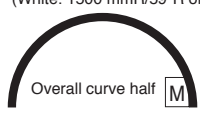
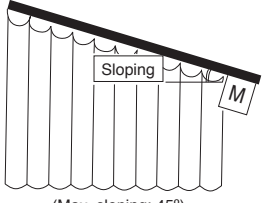
Ready for draperies up to 20 m (787") long with 80 kg (176 lb) in weight.

Motor Specifications

Item		Powerful 3L Series						Powerful 4P Series					
		Powerful 3L 220 V		Powerful 3L-HM 220 V		Powerful Little N3L 220 V		Powerful 4P 220 V		Powerful 4P-HM 220 V		Powerful 4P-HL 220 V	
Rated power voltage	VAC	220		220		220		220		220		220	
Rated power frequency	Hz	50	60	50	60	50	60	50	60	50	60	50	60
Rated power current	A	0.4	0.35	0.4	0.35	0.25	0.3	0.4	0.35	0.4	0.35	0.4	0.35
Power consumption	W	80	75	80	75	60	70	80	75	80	75	80	75
Operating voltage	VAC	Same as power source		Same as power source		Same as power source		Same as power source		Same as power source		Same as power source	
Operating current	A												
Time rating	min.	5		5		5		5		5		5	
Overheat protection operating temperature	°C	120±10		120±10		120±10		120±10		120±10		120±10	
Internal electric circuit		Built-in Inter rock circuit		Built-in Inter rock circuit		Built-in Inter rock circuit		Auto keep circuit, built-in Inter rock circuit		Auto keep circuit, built-in Inter rock circuit		Auto keep circuit, built-in Inter rock circuit	
Operating switch spec.		Locker switch		Locker switch		Locker switch		3-button momentary contact switch Open: A contact Stop: B contact Close: A contact		3-button momentary contact switch Open: A contact Stop: B contact Close: A contact		3-button momentary contact switch Open: A contact Stop: B contact Close: A contact	
Weight of main unit	kg (lb)	1.8 (4.0)		1.8 (4.0)		1.8 (4.0)		1.8 (4.0)		1.8 (4.0)		1.8 (4.0)	
Operating time	sec./m	5	4	9	7	5	4	5	4	9	7	18	14
Maximum curtain weight	kg (lb)	80 (176)		Sloping	Weight	30 (66)		80 (176)		Sloping	Weight	80 (176)	
				0°	80 (176)					0°	80 (176)		
				15°	16 (35)					15°	16 (35)		
				20°	13 (29)					20°	13 (29)		
				30°	10 (22)					30°	10 (22)		
				45°	8 (18)					45°	8 (18)		
Maximum rail length	m (in)	20 (787)		10 (394)		20 (787)		20 (787)		10 (394)		10 (394)	

*Maximum curtain weight is for a two-way draw.

Applicable Range

Type of curtain track			Supertrac				
							
Installation pattern			Straight	Curve		Slope window	
			   	(Min. 300 mmR/11.8"R)  (Min. 300 mmR/11.8"R)  (Natural: 450 mmR/18"R, 800 mmR/32"R or more) (White: 1500 mmR/59"R or more) 		 (Max. sloping: 45°)	
Power transmission type			Wire type	Wire type		Wire type	
Powerful 3L Powerful 4P	Maximum curtain weight	kg (lb)	80 (176)	Single curve	Two curves/ Overall curve half	—	
	Maximum rail length	m (in)		50 (110)	30 (66)		
Powerful 3L-HM	Maximum curtain weight	kg (lb)	80 (176)	70 (154)	50 (110)	Sloping angle	15° 20° 30° 45°
	Maximum rail length	m (in)				Weight	16 (35) 13 (29) 10 (22) 8 (18)
Powerful 4P-HM	Maximum curtain weight	kg (lb)	80 (176)	70 (154)	50 (110)	Sloping angle	15° 20° 30° 45°
	Maximum rail length	m (in)				Weight	16 (35) 13 (29) 10 (22) 8 (18)
Powerful 4P-HL	Maximum curtain weight	kg (lb)	80 (176)	70 (154)	50 (110)	—	
	Maximum rail length	m (in)					
Powerful Little N3L	Maximum curtain weight	kg (lb)	30 (66)	—	—	—	
	Maximum rail length	m (in)					

*Maximum curtain weight is for a two-way draw. Maximum curtain weight for the slope window is a one-way draw.

Type of curtain track			Supertrac			
Installation pattern			Skylight	Slope skylight		Arch
Power transmission type			Wire type	Wire type		Wire type
Powerful 3L Powerful 4P	Maximum curtain weight	kg (lb)	—	—		—
	Maximum rail length	m (in)	—	—		—
Powerful 3L-HM	Maximum curtain weight	kg (lb)	15 (33)	—		Overall arch
	Maximum rail length	m (in)	10 (394)	—		10 (22)
Powerful 4P-HM	Maximum curtain weight	kg (lb)	15 (33)	Sloping angle	45° or less	Overall arch
				Weight	15 (33)	
	Maximum rail length	m (in)	10 (394)	10 (394)		10 (22)
Powerful 4P-HL	Maximum curtain weight	kg (lb)	—	—		Overall arch
	Maximum rail length	m (in)	—	—		10 (22)
Powerful Little N3L	Maximum curtain weight	kg (lb)	—	—		Overall arch
	Maximum rail length	m (in)	—	—		10 (22)

*Maximum curtain weight is for a two-way draw. Maximum curtain weight for the skylight is a one-way draw.

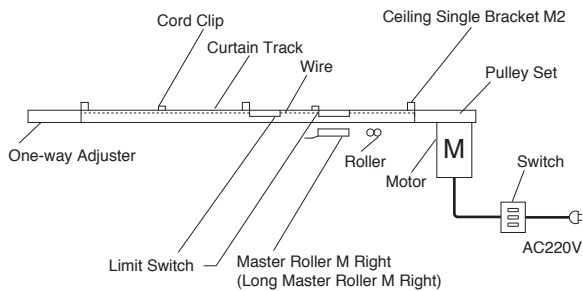
Stack-off Allowance Guide

Type	One-way Draw	Two-way Draw		
		Master Roller	Long Master Roller	Rail Overlap
Straight	$\frac{(\ell - 380 \text{ mm})}{100 \text{ mm}} \times 16 \text{ mm} + 370 \text{ mm}$	$\frac{(\ell - 570 \text{ mm})}{200 \text{ mm}} \times 17 \text{ mm} + 370 \text{ mm}$	$\frac{(\ell - 570 \text{ mm})}{200 \text{ mm}} \times 17 \text{ mm} + 430 \text{ mm}$	$\frac{(\ell - 50 \text{ mm})}{200 \text{ mm}} \times 17 \text{ mm} + 280 \text{ mm}$
	$\frac{(\ell - 15")}{3.9"} \times .63" + 15"$	$\frac{(\ell - 22")}{7.9"} \times .67" + 15"$	$\frac{(\ell - 22")}{7.9"} \times .67" + 17"$	$\frac{(\ell - 2.0")}{7.9"} \times .67" + 11"$
Curve	$\frac{(\ell - 90 \text{ mm})}{100 \text{ mm}} \times 17 \text{ mm} + 160 \text{ mm}$	$\frac{(\ell - 160 \text{ mm})}{200 \text{ mm}} \times 17 \text{ mm} + 160 \text{ mm}$		$\frac{(\ell - 160 \text{ mm})}{200 \text{ mm}} \times 17 \text{ mm} + 80 \text{ mm}$
	$\frac{(\ell - 3.5")}{3.9"} \times .67" + 6.3"$	$\frac{(\ell - 6.3")}{7.9"} \times .67" + 6.3"$		$\frac{(\ell - 6.3")}{7.9"} \times .67" + 3.2"$
Skylight	$\frac{(\ell - 410 \text{ mm})}{100 \text{ mm}} \times 12 \text{ mm} + 410 \text{ mm}$	$\frac{(\ell - 580 \text{ mm})}{200 \text{ mm}} \times 12 \text{ mm} + 410 \text{ mm}$		
	$\frac{(\ell - 16")}{3.9"} \times .47" + 16"$	$\frac{(\ell - 23")}{7.9"} \times .47" + 16"$		
Arch	$\frac{(\ell - 380 \text{ mm})}{100 \text{ mm}} \times 16 \text{ mm} + 370 \text{ mm}$	$\frac{(\ell - 570 \text{ mm})}{200 \text{ mm}} \times 17 \text{ mm} + 370 \text{ mm}$		
	$\frac{(\ell - 15")}{3.9"} \times .63" + 15"$	$\frac{(\ell - 22")}{7.9"} \times .67" + 15"$		

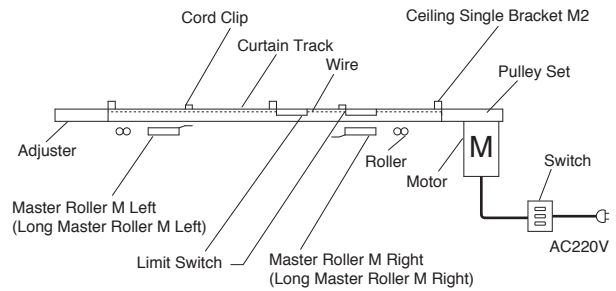
*Number of rollers: 8 pcs per meter. Overlap space for the overlap rail: 500 mm (20"). ℓ total length. Two-way Draw in the table shows a length of stack-off space for one (half) panel.

Component Parts

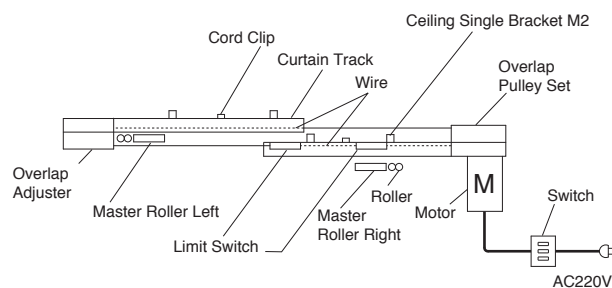
Straight: One-way draw



Straight: Two-way draw
(Master roller)

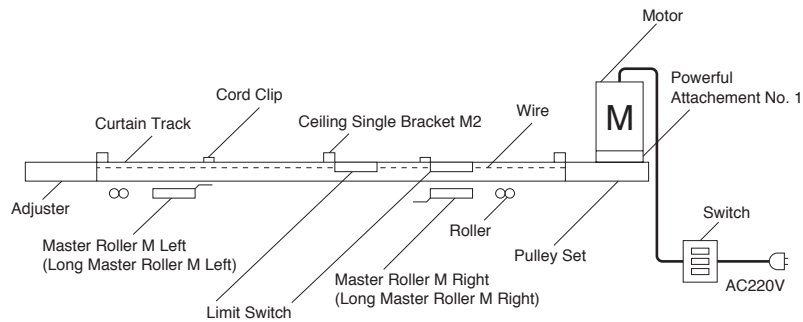


Straight: Rail overlap

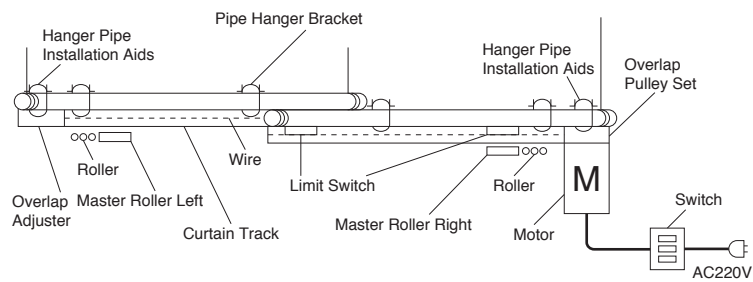


Component Parts

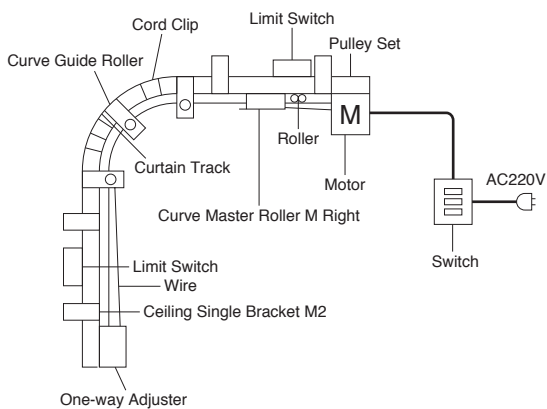
Straight: Two-way draw (Motor recessed in ceiling)



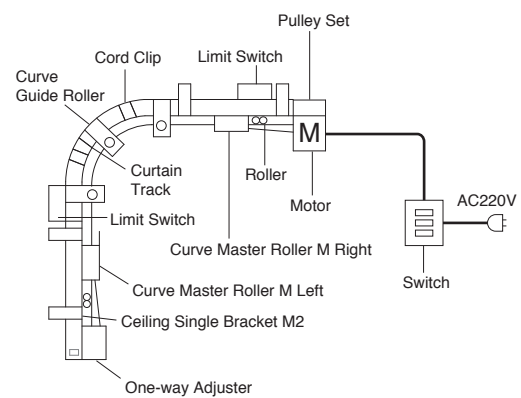
Straight: Hung from pipes (Master roller)



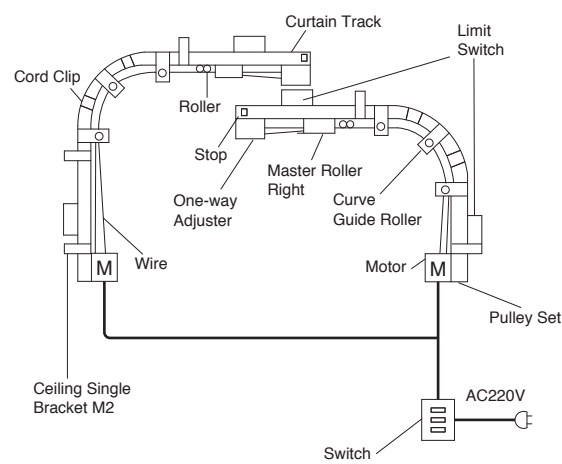
Curve: One-way draw



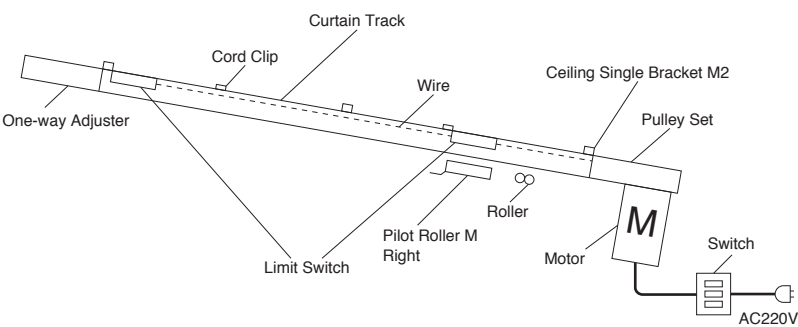
Curve: Two-way draw (Master roller)



Curve: Rail overlap

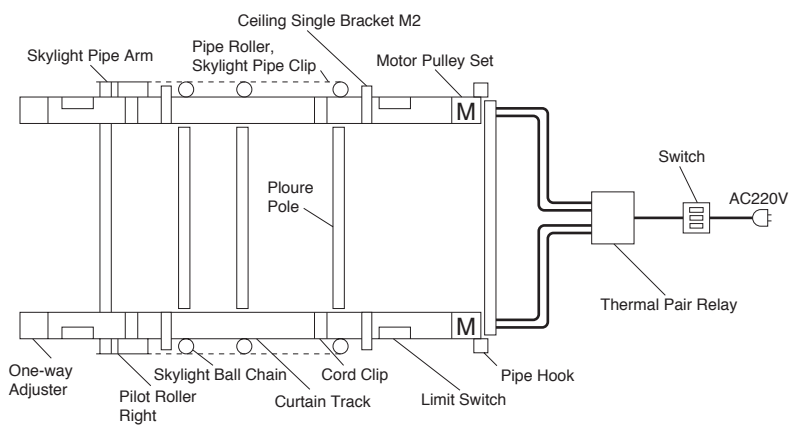


Slope window: One-way draw

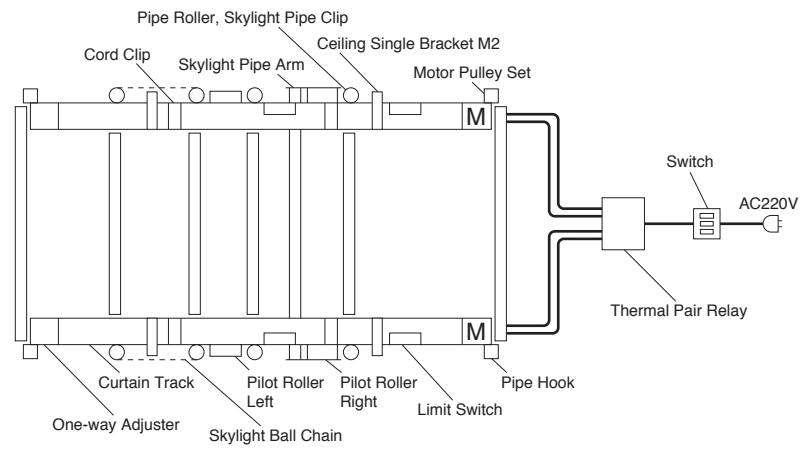


*Notice to the installation positions of the motor so that the curtain hem does not arrive at the floor.

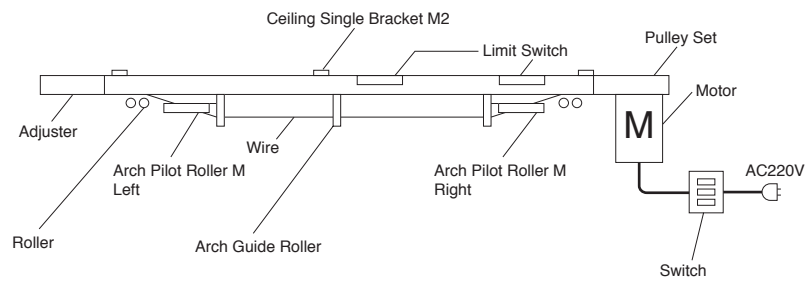
Skylight and Slope skylight: One-way draw



Skylight and Slope skylight: Two-way draw

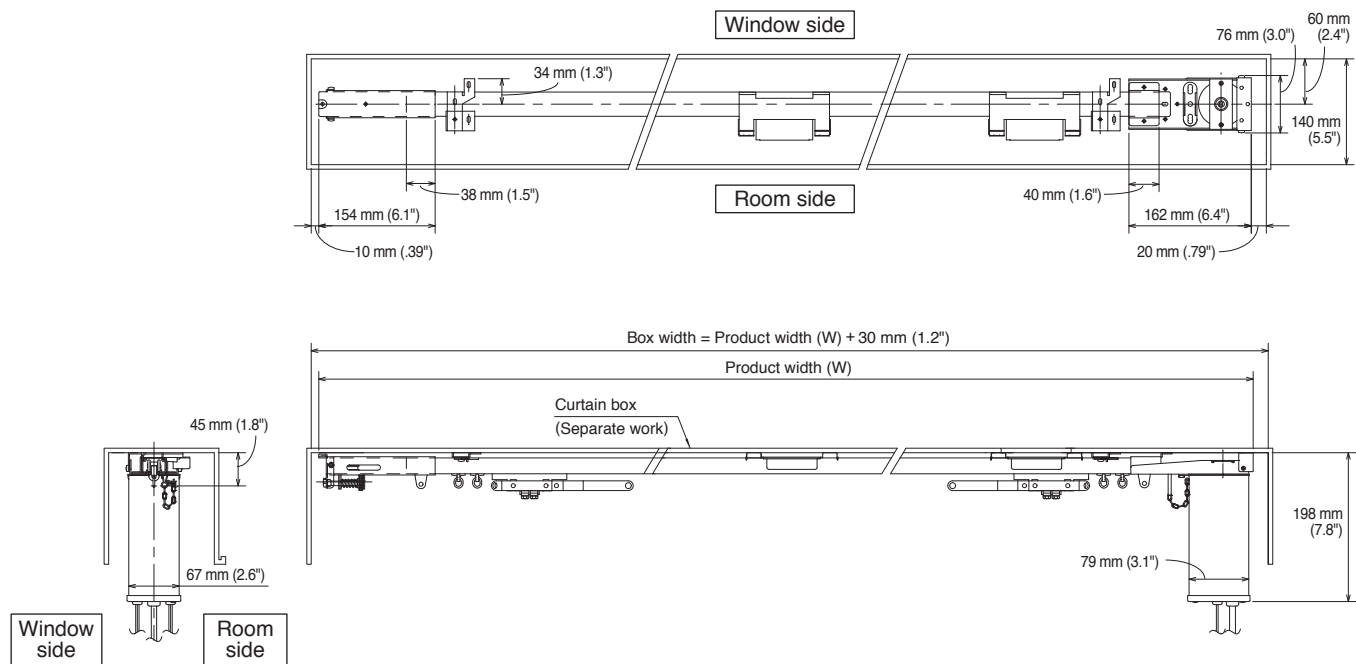


Arch: Two-way draw (Master roller)

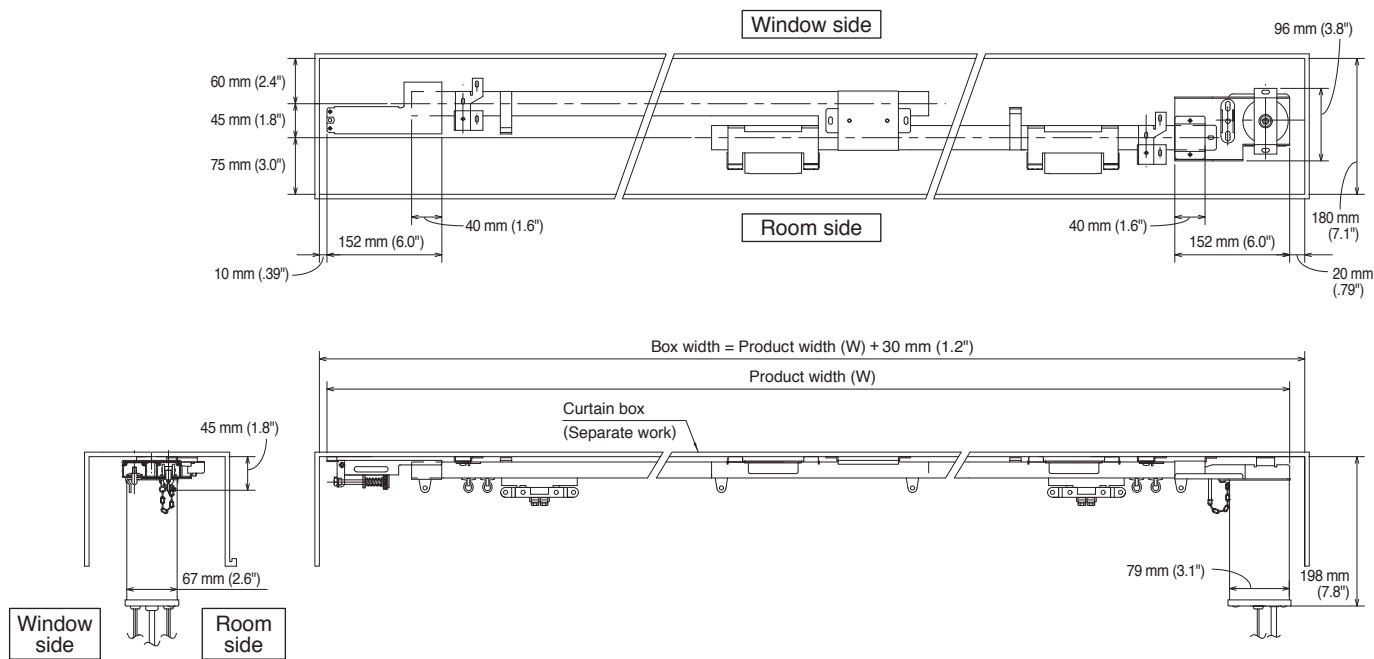


Installation Dimensions and Diagram

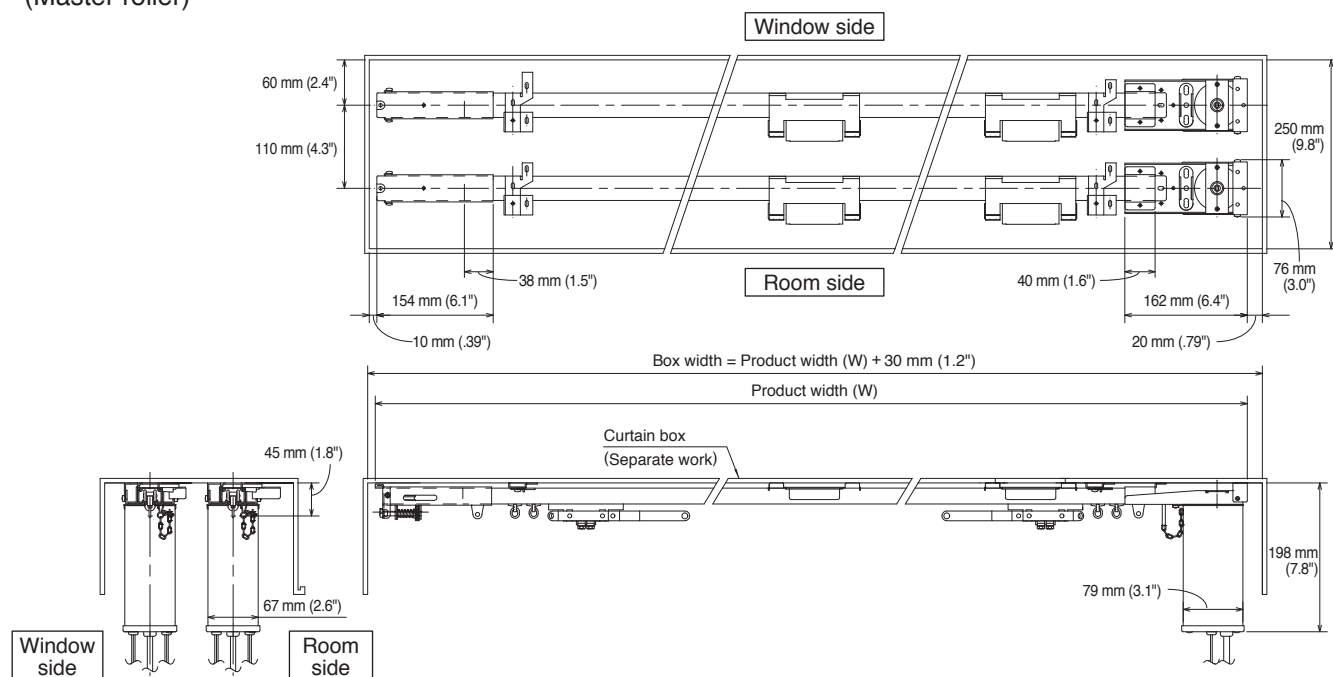
Straight: ceiling single attachment
(Master roller)



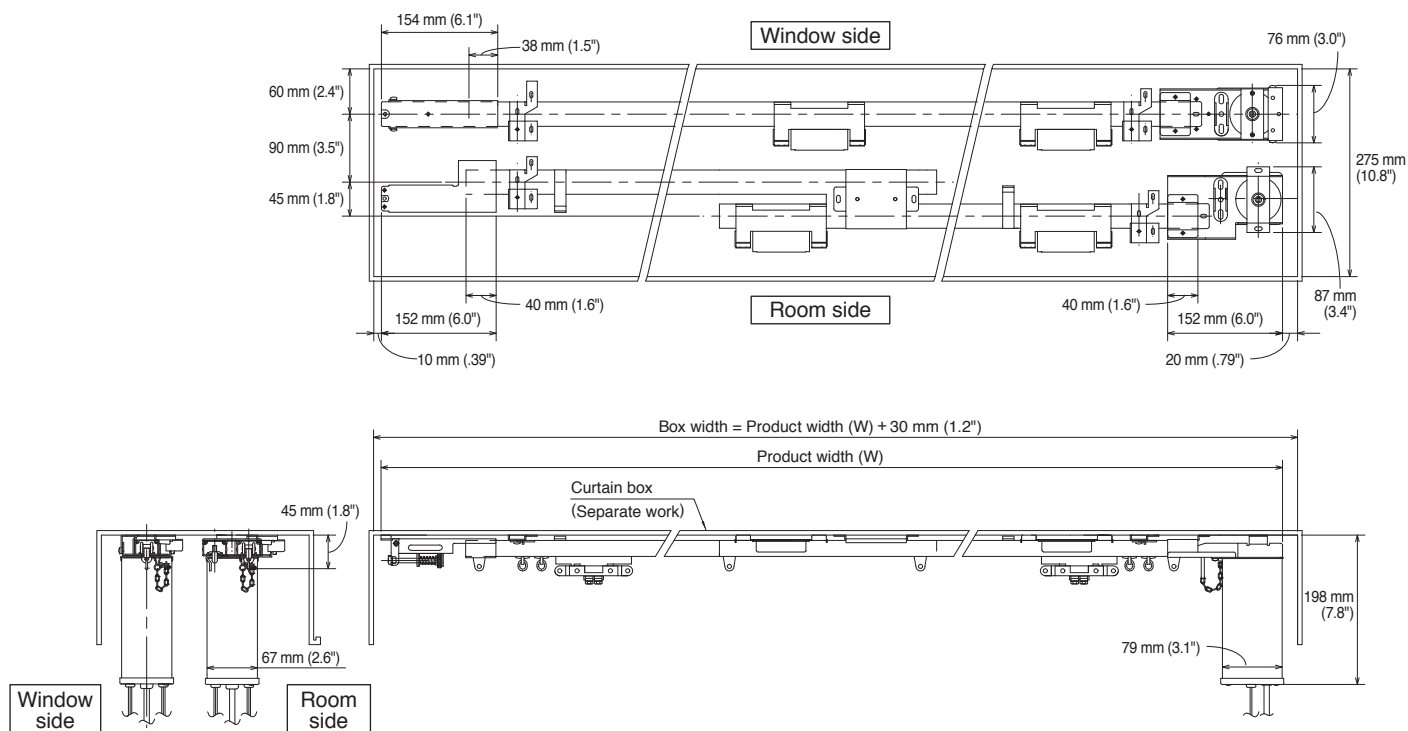
Straight: ceiling single attachment
(Rail overlap)



Straight: ceiling double attachment
(Master roller)



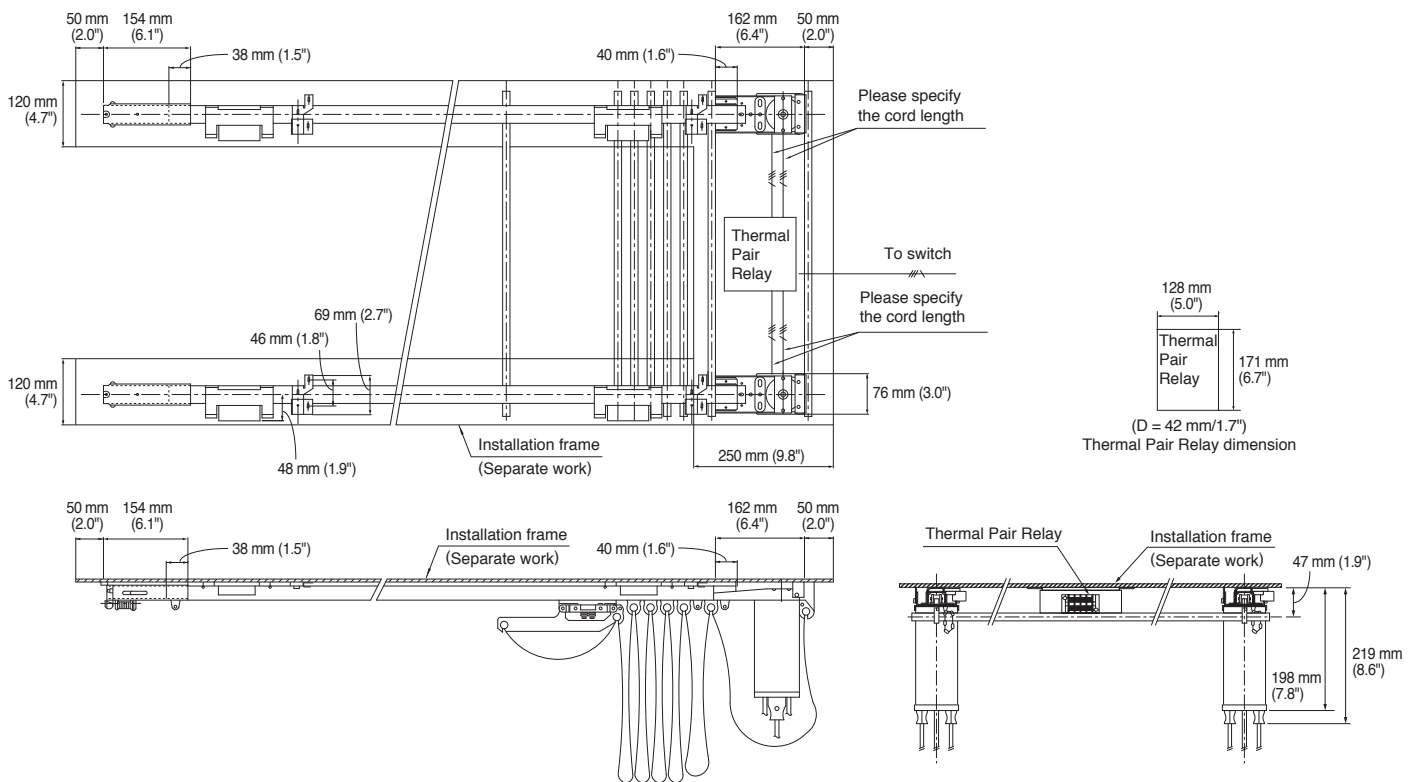
Straight: ceiling double attachment
(Room side: Rail overlap, Window side: Master roller)



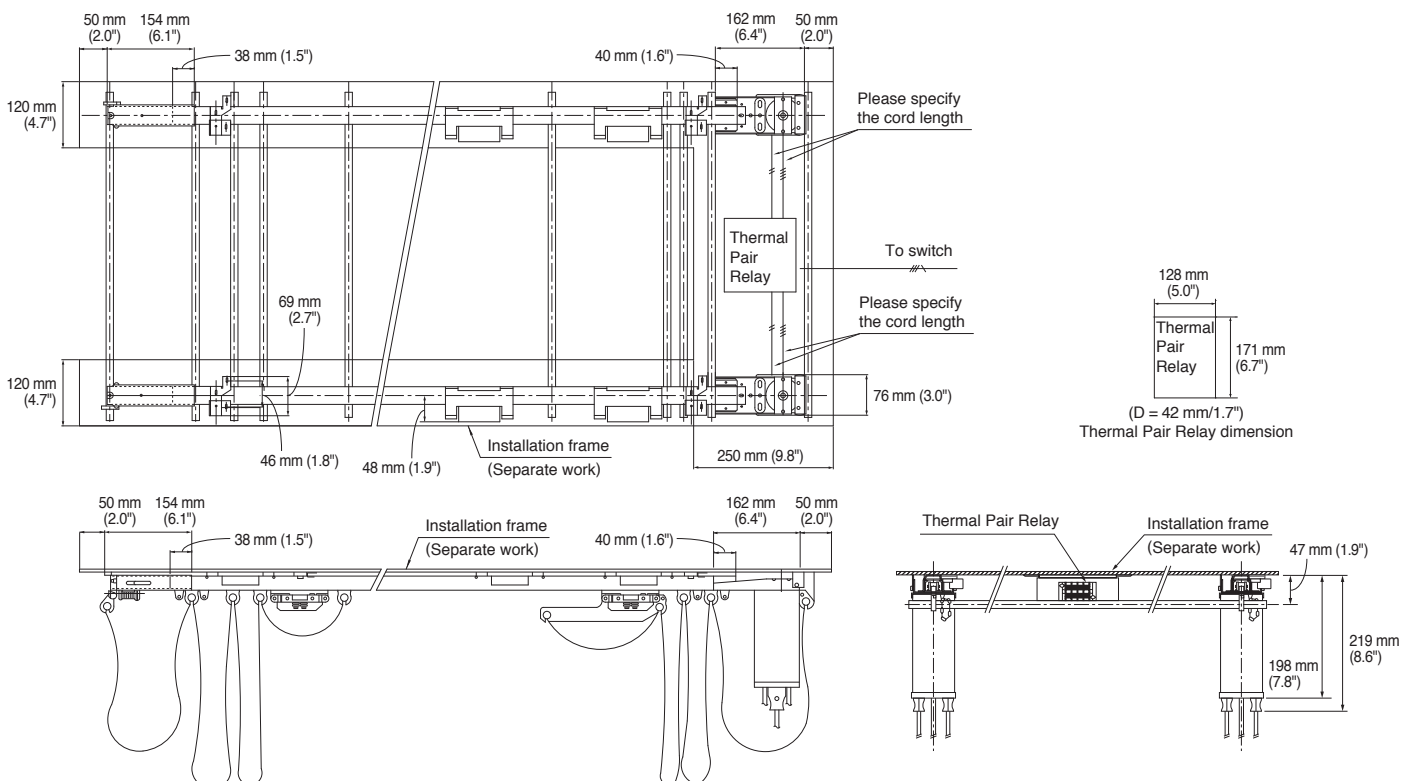
Window side 120 mm (4.7")

Window side

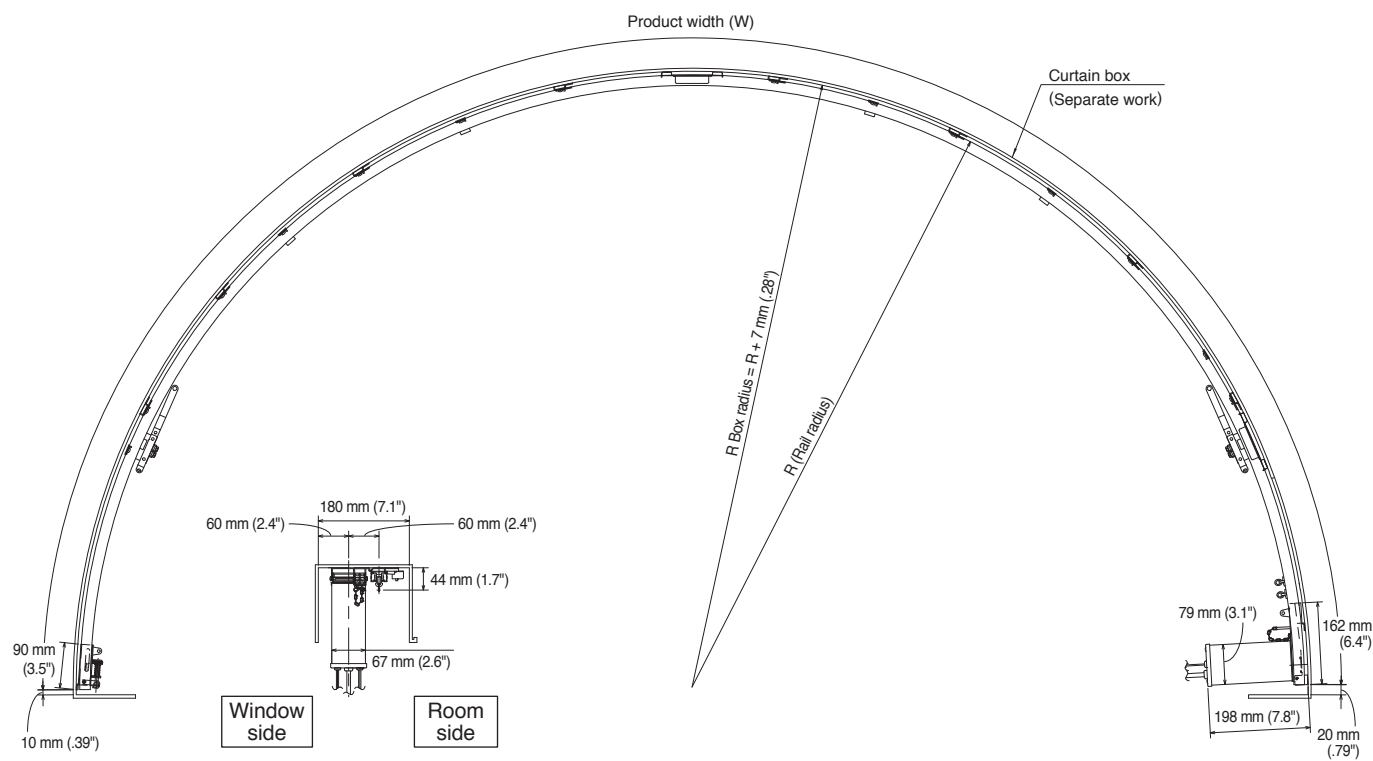
Skylight, Slope skylight: One-way draw



Skylight, Slope skylight: Two-way draw



Arch: ceiling attachment
(Master roller)

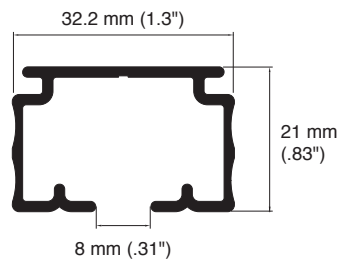


Supertrac Rails

Silver



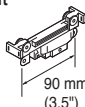
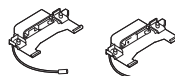
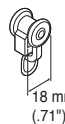
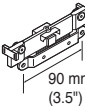
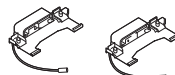
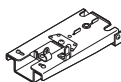
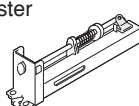
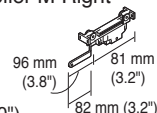
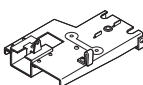
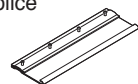
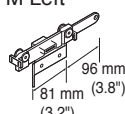
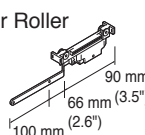
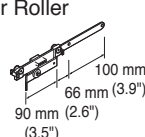
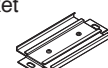
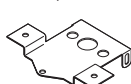
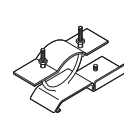
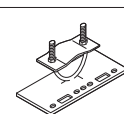
White



Size	Product Code	
	Silver	White
3.00 m (118")	00240023	00240093
4.00 m (157")	00240026	00240094
Curved Rail (500 mmR/20"R) 1.00 m x 1.00 m (39" x 39") (Ordered separately) ^{*1}	00240058	00240095

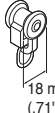
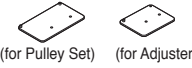
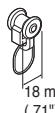
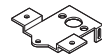
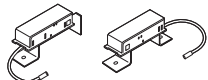
^{*1} Curved 1.00 m x 1.00 m (39" x 39") rails (ordered separately) are 500 mmR (20"R).
Note: Possible radius sizes—450 mmR (18"R), 800 mmR (31"R) or more

Powerful + Supertrac Parts (For Straight and Slope)

Product Name		Product Code	Product Name		Product Code	Product Name		Product Code	
SP Ceiling Single Bracket M2	Silver	00510022	SP Pilot Roller Right (wire)	 90 mm (3.5") ℓ = 125 mm (4.9")	00510042	SP Limit Switch A	 Two-way draw: 10 m (394") or less One-way draw: 5 m (197") or less Rail overlap (500 mm/20"): 9.5 m (374") or less	Silver	00510303
	White	00510319						White	00510317
SP Roller	 18 mm (.71")	00240011	SP Pilot Roller Left (wire)	 90 mm (3.5") ℓ = 125 mm (4.9")	00510040	SP Limit Switch B	 Two-way draw: 10 m (394") to 20 m (787") One-way draw: 5 m (197") to 10 m (394") Rail overlap (500 mm/20"): 9.5 m (374") to 19.5 m (768")	Silver	00510304
SP OM Roller	 18 mm (.71")	00240010	SP Pulley Set (wire)		Silver	00510047		White	00510318
SP Swing Roller with Ring		00240059	SP Adjuster		White	00510314			
					SP One-way Adjuster		Silver	00240036	White
SP Master Roller M Right (wire)	 96 mm (3.8") 81 mm (3.2") 82 mm (3.2") ℓ = 202 mm (8.0")	00510085	SP Overlap Installation Kit M (wire)	 Pulley Set: 1 Master Roller Right: 1 Master Roller Left: 1 Adjuster: 1 Overlap Bracket: 1 Cord Clip: 10	00510024	SP OT Splice		Silver	00240003
SP Master Roller M Left (wire)	 96 mm (3.8") 81 mm (3.2") ℓ = 202 mm (8.0")	00510086					White	00240066	Wire ø1.5
SP Long Master Roller M Right (wire)	 90 mm (3.5") 66 mm (2.6") 100 mm (3.9") ℓ = 272 mm (10.7")	00510038				SP Cord Clip		00510029	
SP Long Master Roller M Left (wire)	 90 mm (3.5") 66 mm (2.6") 100 mm (3.9") ℓ = 272 mm (10.7")	00510036				SP Overlap Bracket		00240030	
			Powerful Attachment No. 1 (available for New Delac)		00510061	SP Pipe Hanger Bracket for ø 28–43 mm (ø 1.1–1.7")		00510021	
						Hangar Pipe Installation Aids (available Theatrac) for ø 33–50 mm (ø 1.3–2.0")		00510203	

*Please inquire of TOSO about arch, skylight and slope skylight.

Powerful + Supertrac Parts (For Curve)

Product Name		Product Code	Product Name		Product Code	Product Name		Product Code
SP Ceiling Single Bracket M2	Silver	00510022	SP Curved Master Roller M Right	 73 mm (2.9") 81 mm (3.2")	00510166	SP Curved Guide Roller	 00510170	
	White	00510319						
SP Roller	 18 mm (.71")	00240011	SP Curved Master Roller M Left	 81 mm (3.2") 73 mm (2.9")	00510167	SP Curved Installation Aids	 (for Pulley Set) (for Adjuster) 00510171	
SP OM Roller	 18 mm (.71")	00240010	SP Curved Pilot Roller Right	 66 mm (2.6")	00510168	Powerful Attachment No. 1		 00510061
SP Swing Roller with Ring	 00240059		SP Curved Limit Switch A (for ceiling attachment)	 00510330		SP OT Splice	Silver	
SP End Stop	 00240020		SP Limit Switch A			Silver	00510303	White
SP Pulley Set (wire)	Silver	00510047	Two-way draw: 10 m (394") or less One-way draw: 5 m (197") or less Rail overlap (500 mm/20"): 9.5 m (374") or less	White	00510317	Wire ø1.5	 00510072	
	White	00510314						
SP One-way Adjuster	Silver	00240036	SP Limit Switch B	Silver	00510304	SP Cord Clip	 00510029	
	White	00510316	Two-way draw: 10 m (394") to 20 m (787") One-way draw: 5 m (197") to 10 m (394") Rail overlap (500 mm/20"): 9.5 m (374") to 19.5 m (768")	White	00510318			