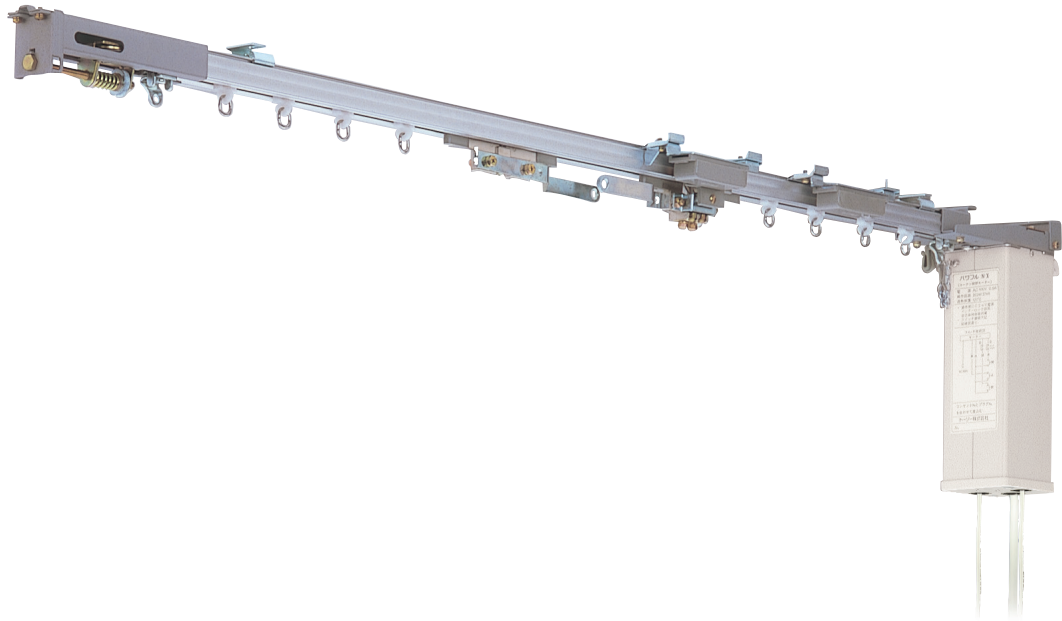


Motorized Curtain Track

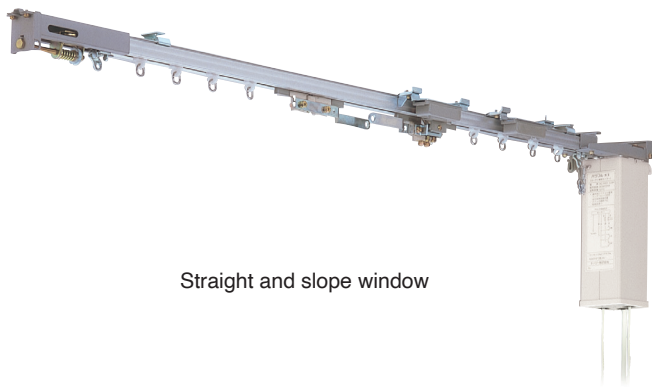
# Powerful + Supertrac



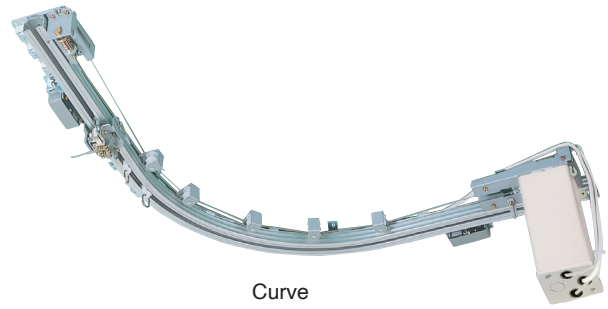
- Motorized curtain rail suitable for medium weight draperies.
- Available for straight, curve, skylight and slope windows.

# Powerful + Supertrac

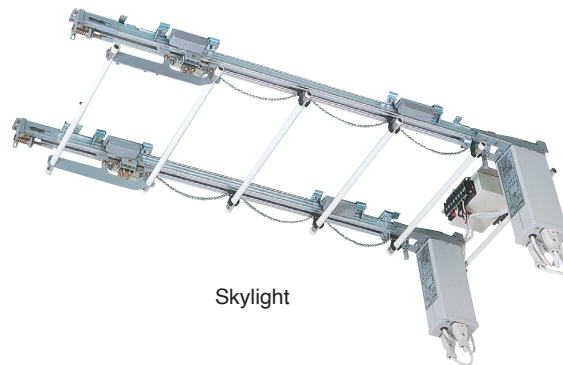
## Powerful + Supertrac's Unique Features



Straight and slope window



Curve



Skylight

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

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

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**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 3L-HL 220 V		Powerful 4P 220 V		Powerful 4P-HM 220 V	
Rated power voltage	VAC	220		220		220		220		220	
Rated power frequency	Hz	50	60	50	60	50	60	50	60	50	60
Rated power current	A	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Power consumption	W	85	85	85	85	85	85	85	85	85	85
Operating voltage	VAC	Same as power source		Same as power source		Same as power source		Same as power source		Same as power source	
Operating current	A	Same as power source		Same as power source		Same as power source		Same as power source		Same as power source	
Time rating	min.	5		5		5		5		5	
Overheat protection operating temperature	°C	120 ± 5		120 ± 5		120 ± 5		120 ± 5		120 ± 5	
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	
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	
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)	
Operating time	sec./m	5	4	9	7	18	14	5	4	9	7
Maximum curtain weight	kg (lb)	80 (176)		Sloping	Weight	80 (176)		80 (176)		Sloping	Weight
				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)		10 (394)		20 (787)		10 (394)	

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

## Applicable Range

Type of curtain track			Supertrac													
Installation pattern			Straight	Curve		Slope window										
Power transmission type			Wire type	Wire type		Wire type										
				Single curve	Two curves/ Overall curve half											
Powerful 3L Powerful 4P	Maximum curtain weight	kg (lb)	80 (176)	50 (110)	30 (66)	—										
	Maximum rail length	m (in)	20 (787)	10 (394)	10 (394)	—										
Powerful 3L-HM	Maximum curtain weight	kg (lb)	80 (176)	70 (154)	50 (110)	<table border="1"> <tr> <th>Sloping angle</th> <th>15°</th> <th>20°</th> <th>30°</th> <th>45°</th> </tr> <tr> <td>Weight</td> <td>16 (35)</td> <td>13 (29)</td> <td>10 (22)</td> <td>8 (18)</td> </tr> </table>	Sloping angle	15°	20°	30°	45°	Weight	16 (35)	13 (29)	10 (22)	8 (18)
	Sloping angle	15°	20°	30°	45°											
Weight	16 (35)	13 (29)	10 (22)	8 (18)												
Maximum rail length	m (in)	10 (394)	10 (394)	10 (394)	10 (394)											
Powerful 4P-HM	Maximum curtain weight	kg (lb)	80 (176)	70 (154)	50 (110)	<table border="1"> <tr> <th>Sloping angle</th> <th>15°</th> <th>20°</th> <th>30°</th> <th>45°</th> </tr> <tr> <td>Weight</td> <td>16 (35)</td> <td>13 (29)</td> <td>10 (22)</td> <td>8 (18)</td> </tr> </table>	Sloping angle	15°	20°	30°	45°	Weight	16 (35)	13 (29)	10 (22)	8 (18)
	Sloping angle	15°	20°	30°	45°											
Weight	16 (35)	13 (29)	10 (22)	8 (18)												
Maximum rail length	m (in)	10 (394)	10 (394)	10 (394)	10 (394)											
Powerful 3L-HL	Maximum curtain weight	kg (lb)	80 (176)	70 (154)	50 (110)	—										
	Maximum rail length	m (in)	10 (394)	10 (394)	10 (394)	—										

\*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		
Power transmission 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)	—		
	Maximum rail length	m (in)	10 (394)	—		
Powerful 4P-HM	Maximum curtain weight	kg (lb)	15 (33)	Sloping angle	45° or less	45°
				Weight	15 (33)	12 (26)
Powerful 3L-HL	Maximum curtain weight	kg (lb)	—	—		
	Maximum rail length	m (in)	—	—		

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

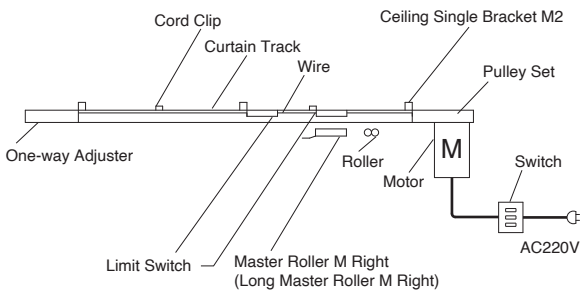
## Stack-off Allowance Guide

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	$\frac{(\ell - 410 \text{ mm})}{100 \text{ mm}} \times 12 \text{ mm} + 410 \text{ mm}$	$\frac{(\ell - 580 \text{ mm})}{200 \text{ mm}} \times 12 \text{ mm} + 410 \text{ mm}$	_____	_____
	$\frac{(\ell - 16")}{3.9"} \times .47" + 16"$	$\frac{(\ell - 23")}{7.9"} \times .47" + 16"$	_____	_____

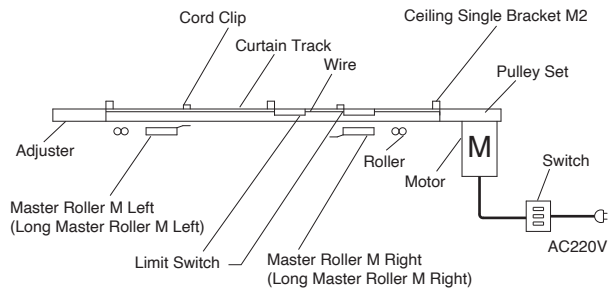
\*Number of rollers: 8 pcs per meter. Overlap space for the overlap rail: 500 mm (20").  $\ell$ : total length. Two-way Draw in the table shows a length of stack-off space for one (half) panel.

## Component Parts

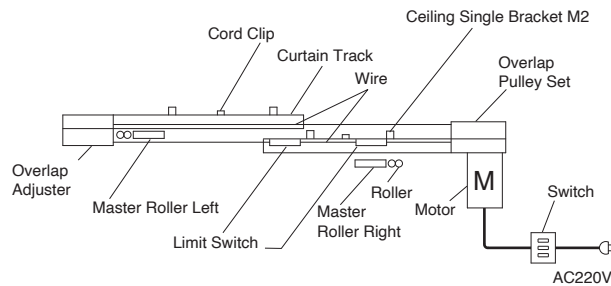
Straight: One-way draw



Straight: Two-way draw (Master roller)

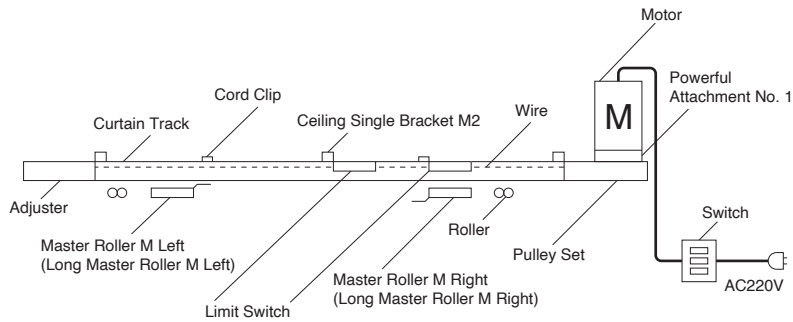


Straight: Rail overlap

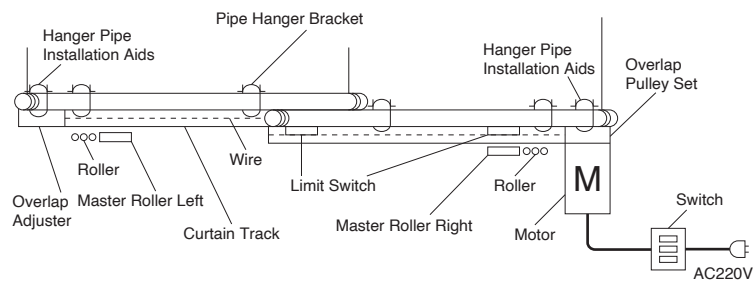


Component Parts

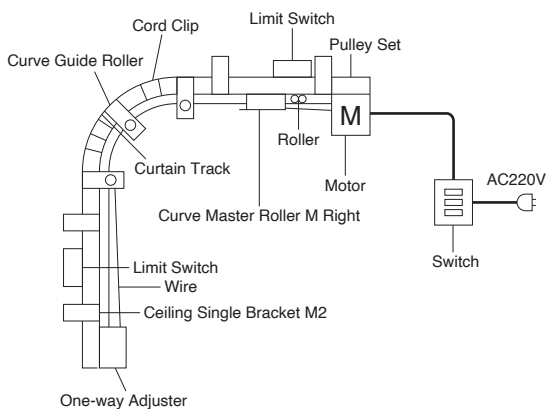
Straight: Two-way draw  
(Motor recessed in ceiling)



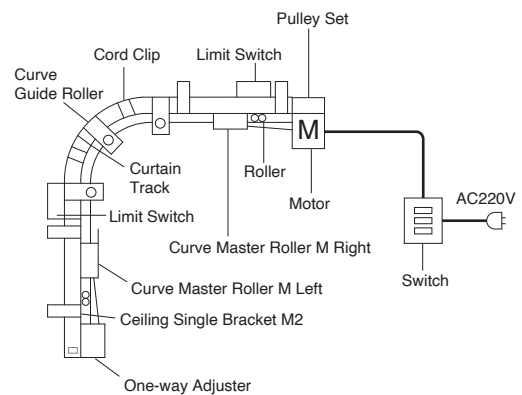
Straight: Hung from pipes  
(Master roller)



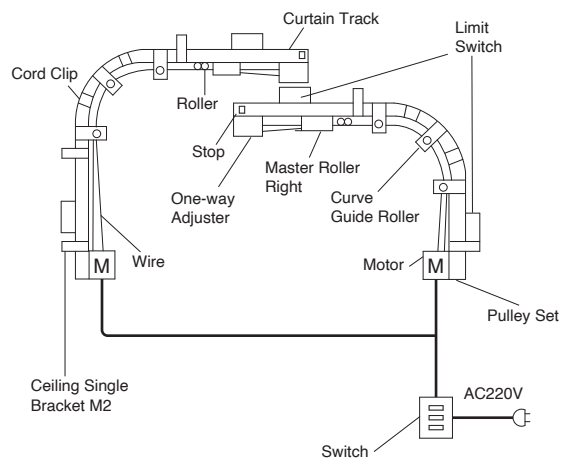
Curve: One-way draw



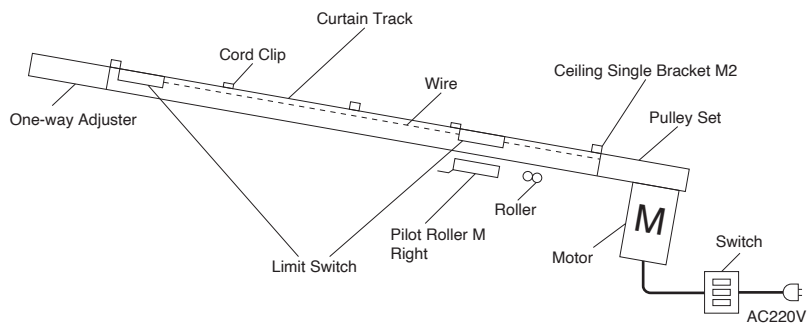
Curve: Two-way draw  
(Master roller)



## Curve: Rail overlap



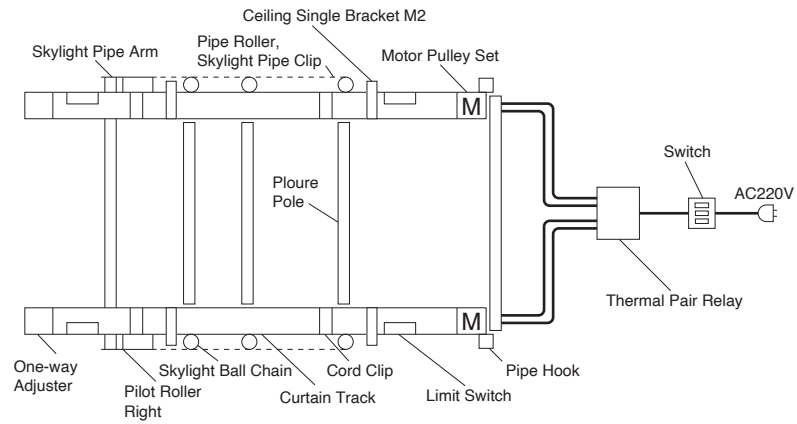
## Slope window: One-way draw



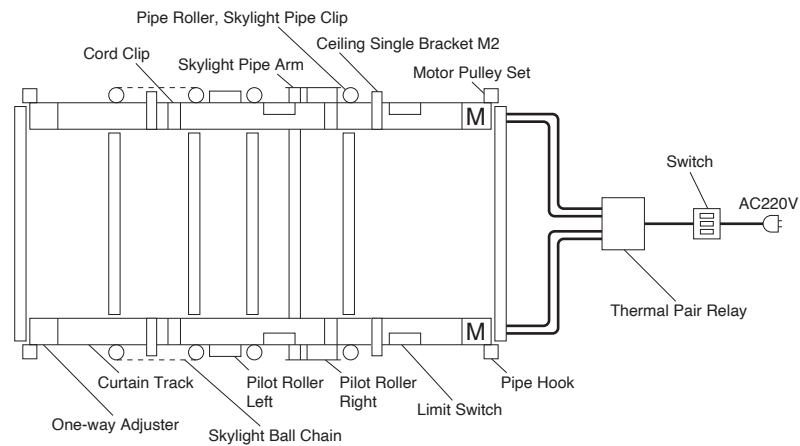
\*Notice to the installation positions of the motor so that the curtain hem does not arrive at the floor.



Skylight and Slope skylight: One-way draw

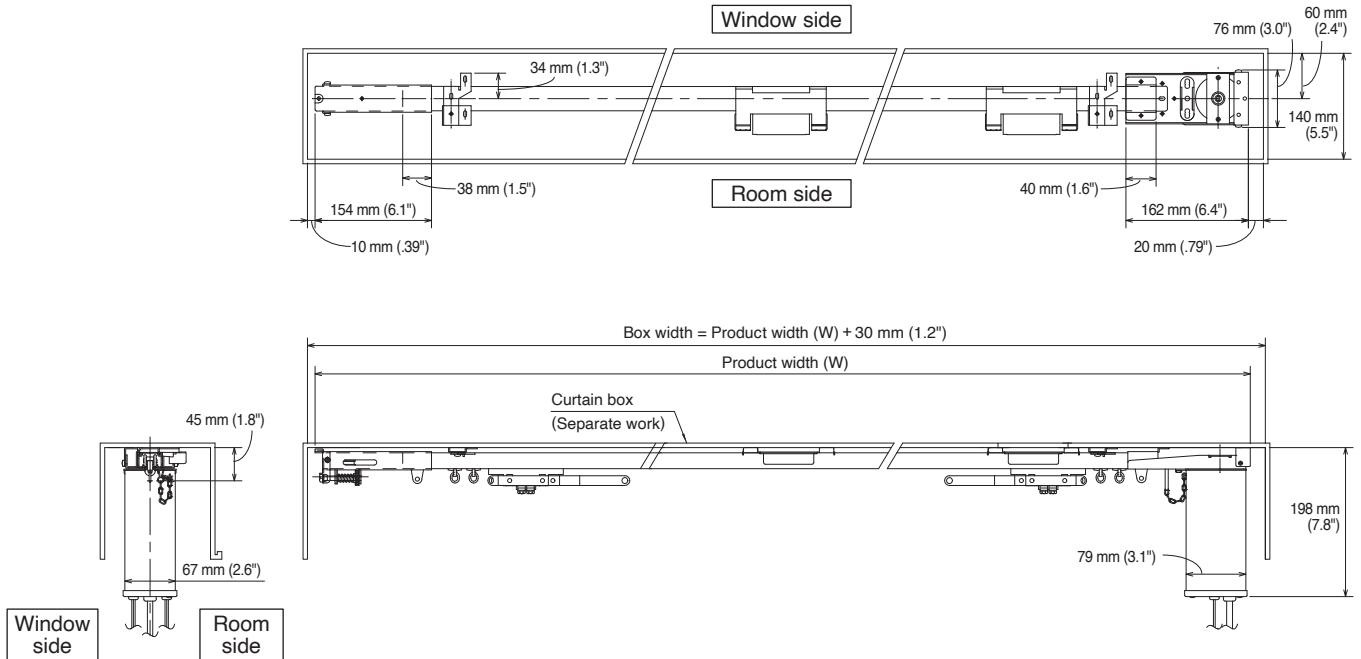


Skylight and Slope skylight: Two-way draw

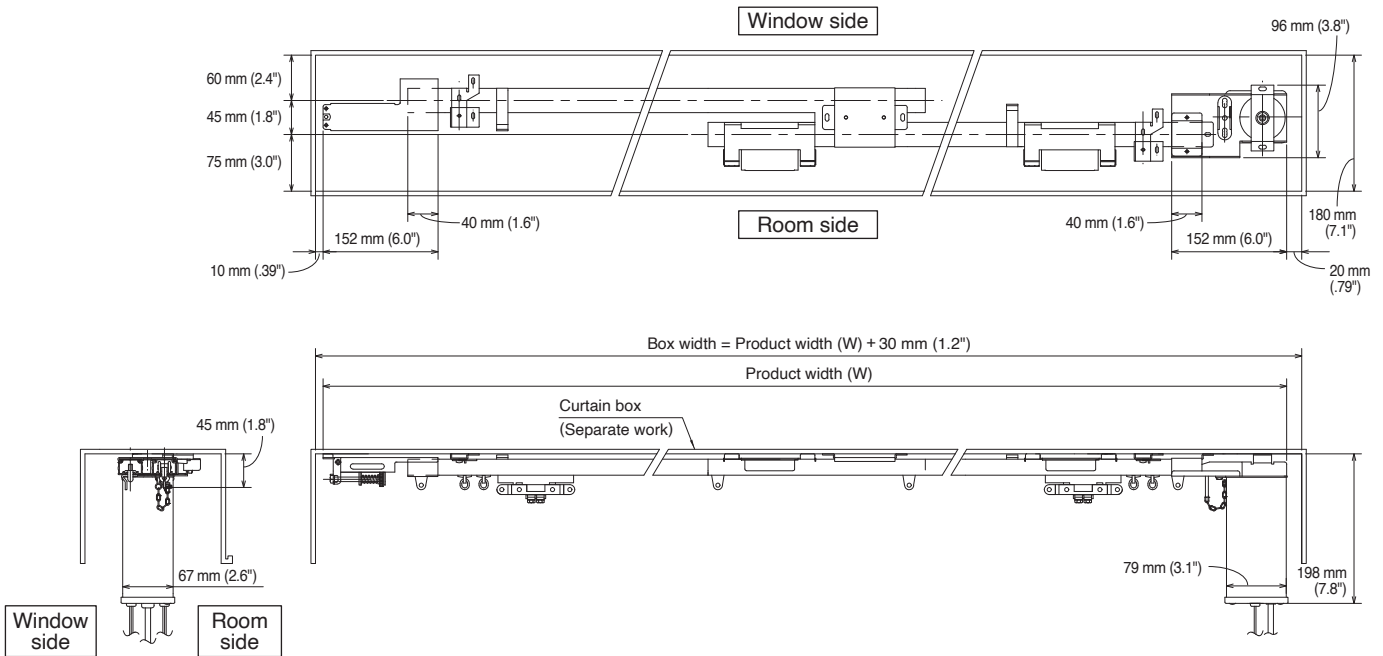


## Installation Dimensions and Diagram

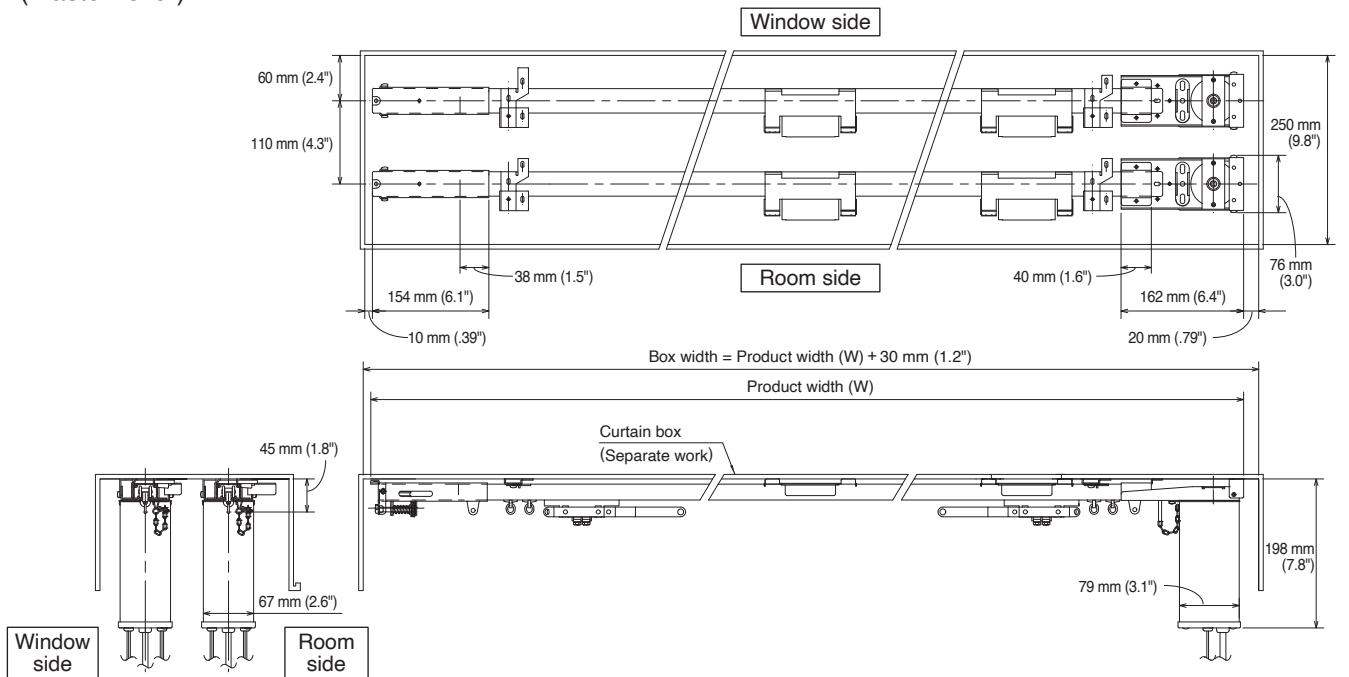
Straight: ceiling single attachment  
(Master roller)



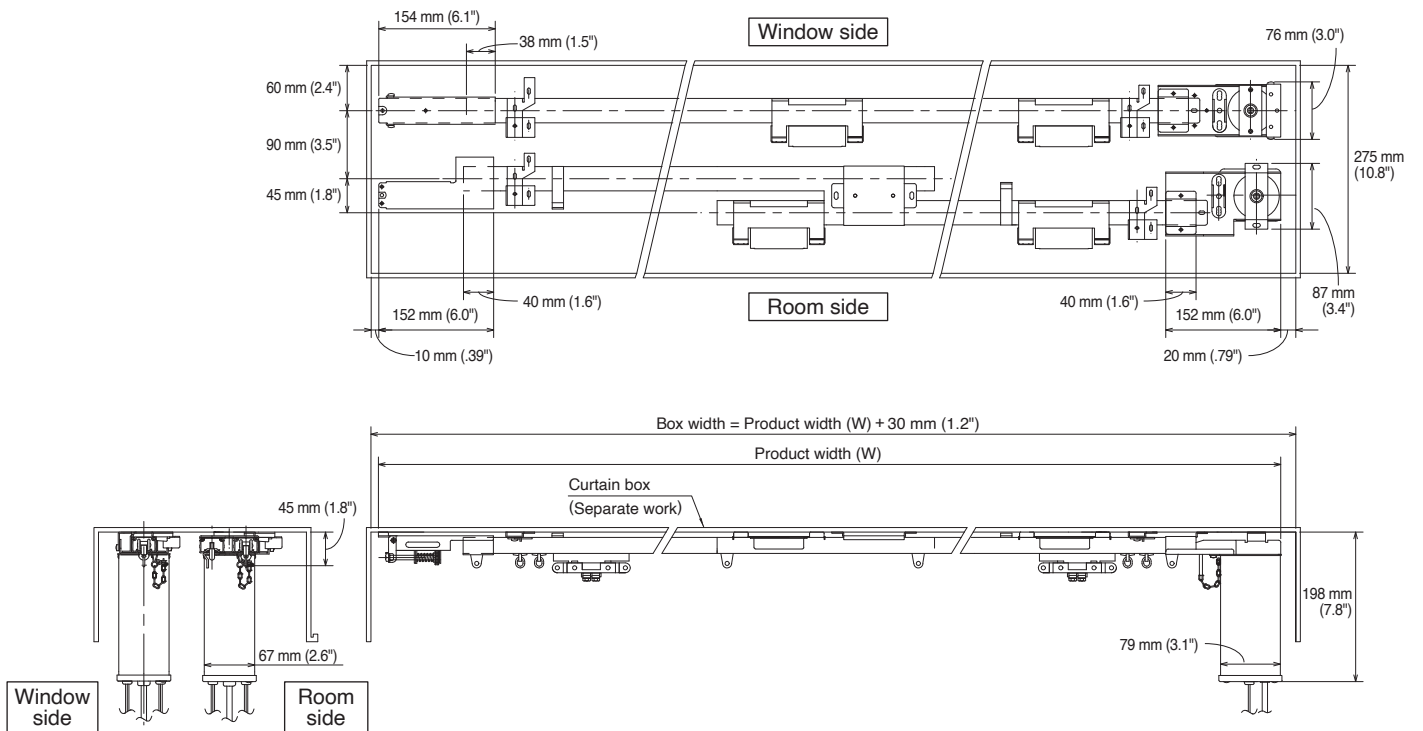
Straight: ceiling single attachment  
(Rail overlap)



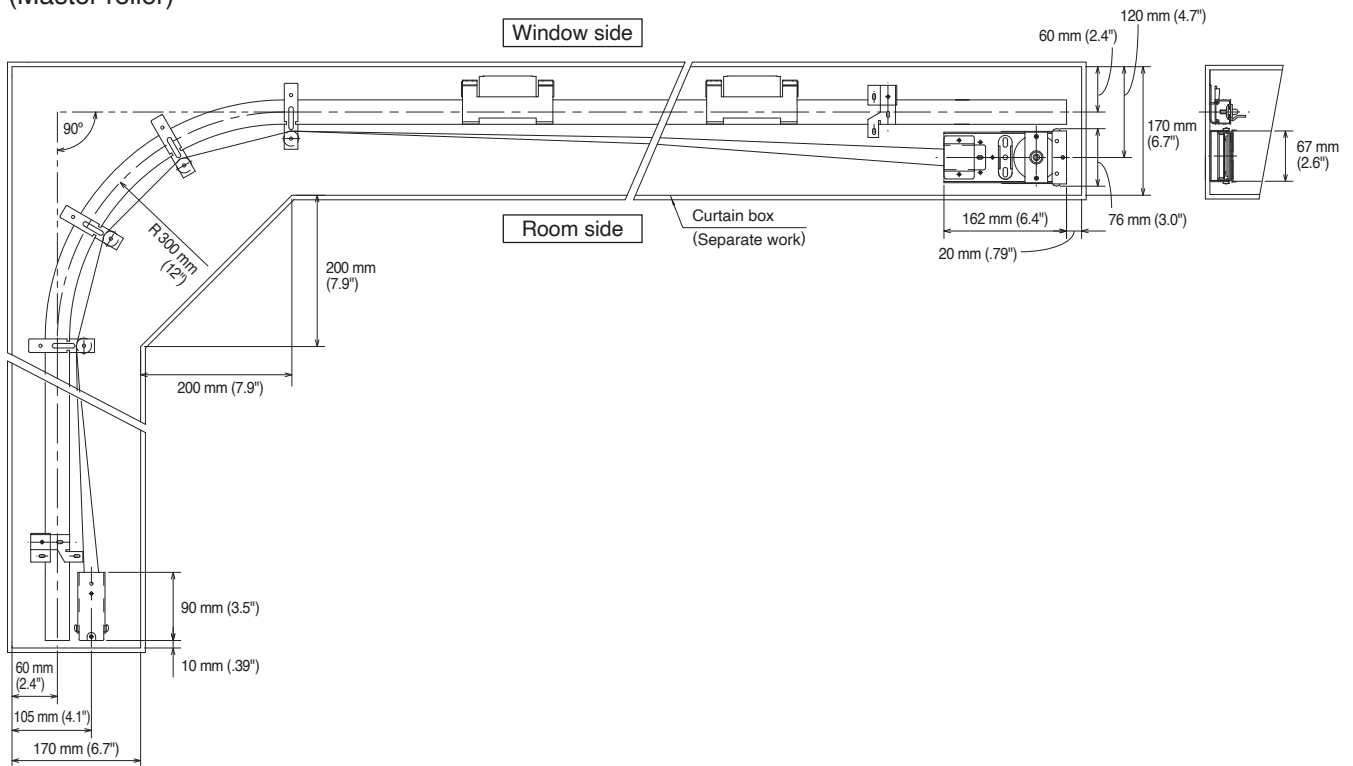
Straight: ceiling double attachment  
(Master roller)



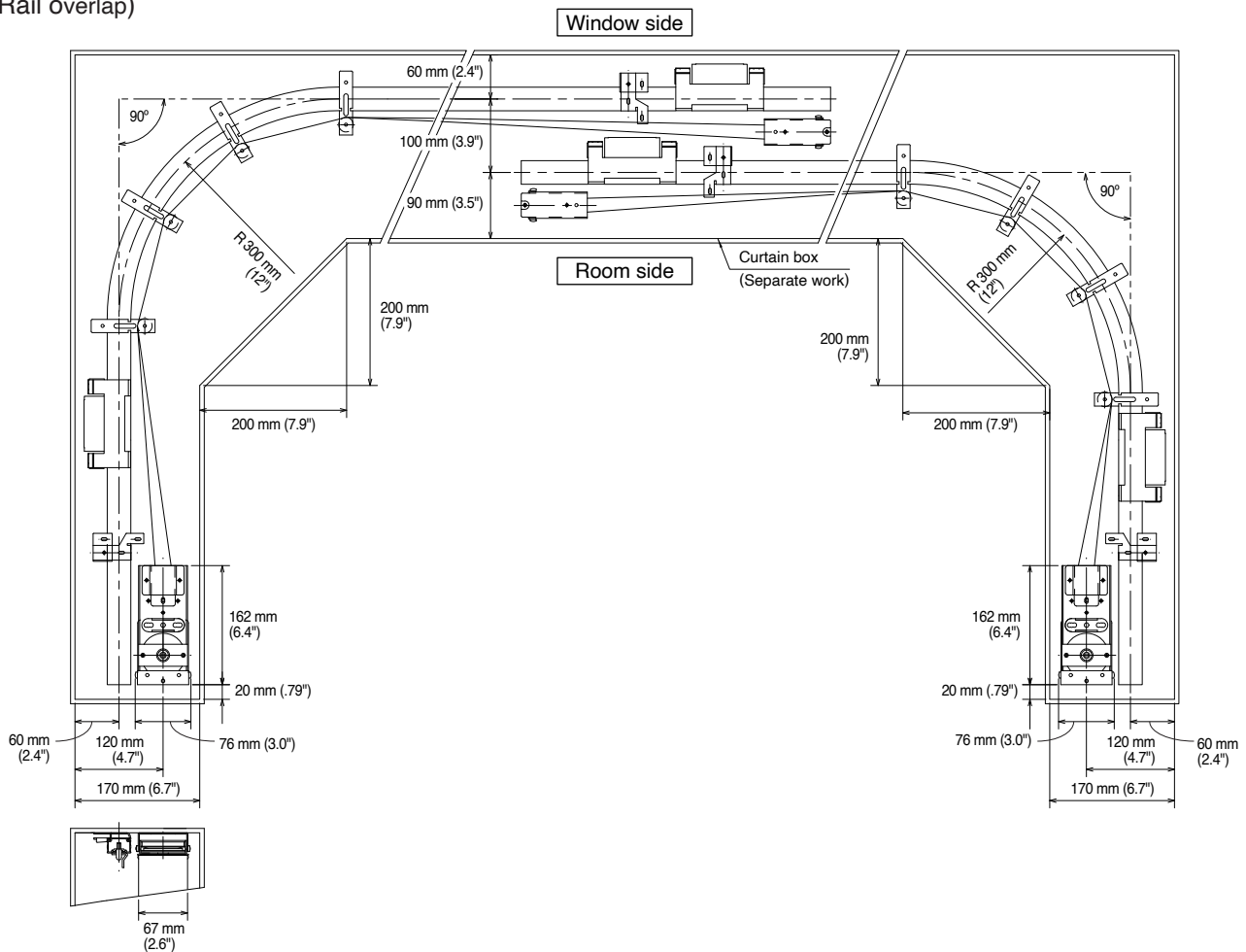
Straight: ceiling double attachment  
(Room side: Rail overlap, Window side: Master roller)



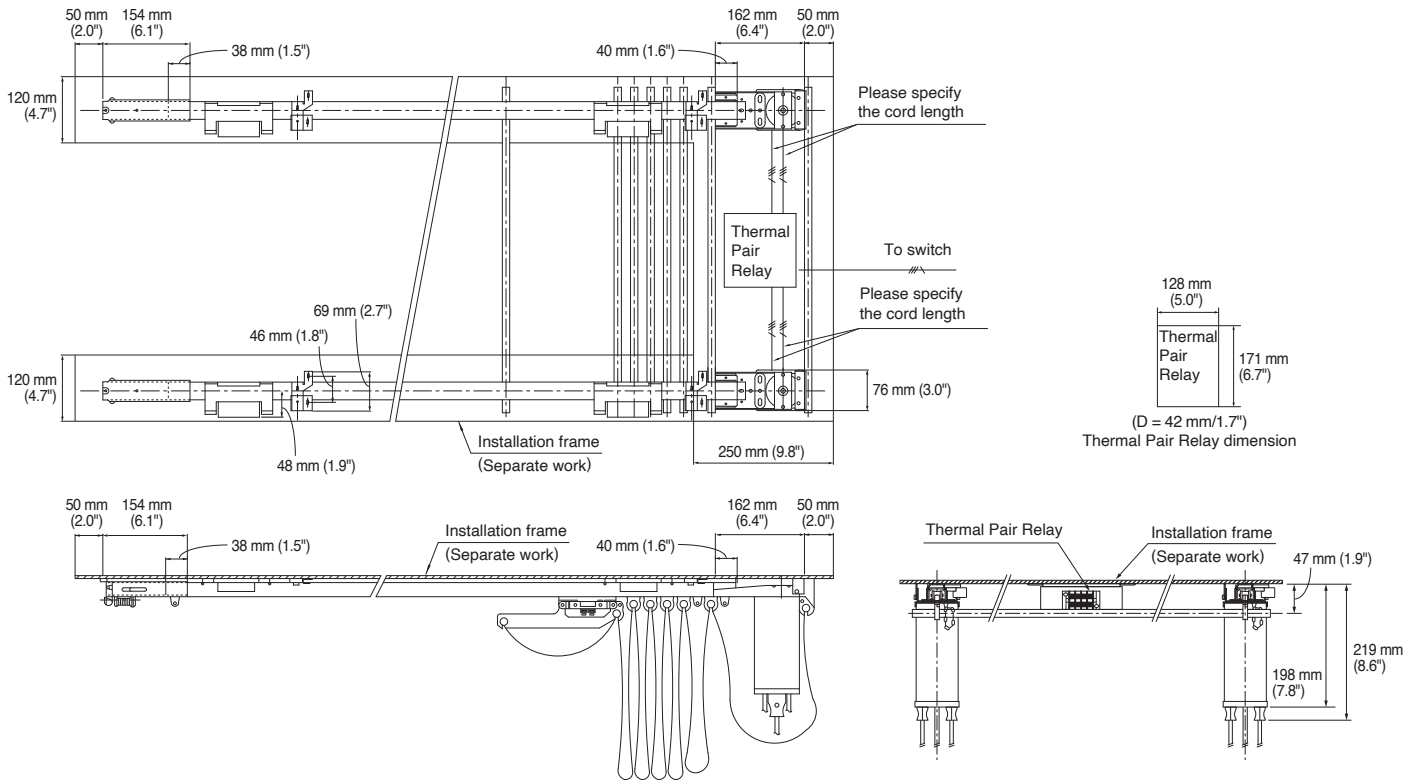
## Curve: ceiling single attachment (Master roller)



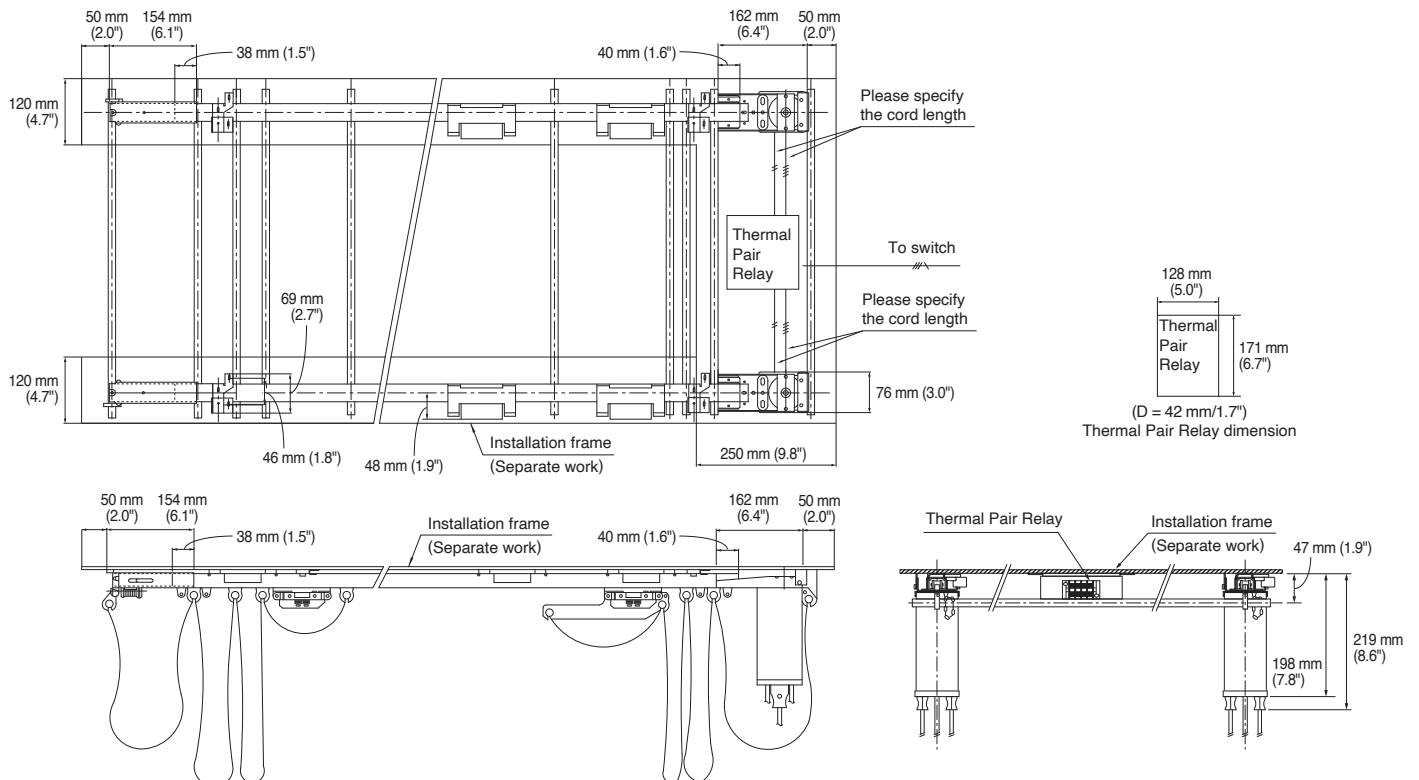
## Curve: ceiling single attachment (Rail overlap)



Skylight, Slope skylight: One-way draw

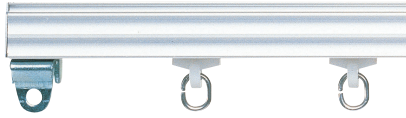


Skylight, Slope skylight: Two-way draw

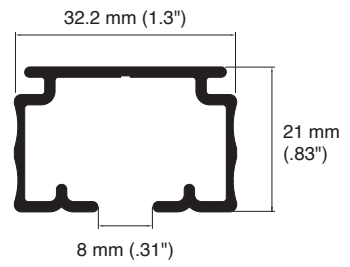


## Supertrac Rails

Silver



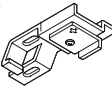
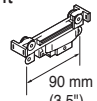
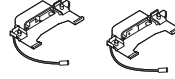
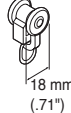
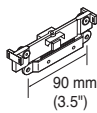
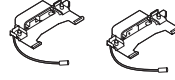

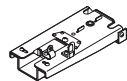

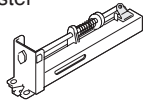
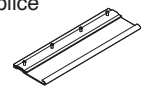
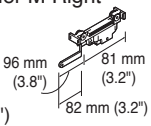


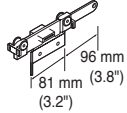
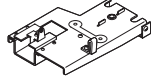

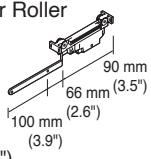
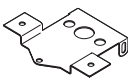
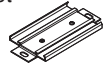
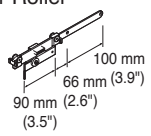
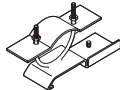
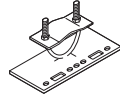
White



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) <sup>*1</sup>	00240058	00240095

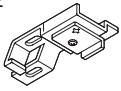



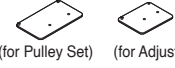
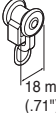

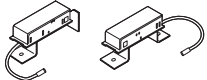
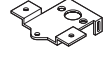
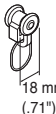
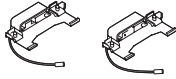
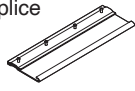



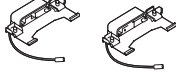

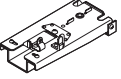
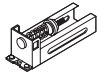
<sup>\*1</sup> Curved 1.00 m x 1.00 m (39" x 39") rails (ordered separately) are 500 mmR (20"R).  
 Note: Possible radius sizes—450 mmR (18"R), 800 mmR (31"R) or more

Powerful + Supertrac Parts (For Straight and Slope)

Product Name	Product Code	Product Name	Product Code	Product Name	Product Code
<b>SP Ceiling Single Bracket M2</b> 	Silver 00510022	<b>SP Pilot Roller Right (wire)</b>  $\ell = 125 \text{ mm (4.9")}$	00510042	<b>SP Limit Switch A</b>  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
<b>SP Roller</b>  $18 \text{ mm (}.71\text{")}$	00240011	<b>SP Pilot Roller Left (wire)</b>  $\ell = 125 \text{ mm (4.9")}$	00510040	<b>SP Limit Switch B</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
<b>SP OM Roller</b>  $18 \text{ mm (}.71\text{")}$	00240010	<b>SP Pulley Set (wire)</b> 	Silver 00510047 White 00510314		White 00510318
<b>SP Swing Roller with Ring</b> 	00240059	<b>SP Adjuster</b> 	Silver 00510045 White 00510315	<b>SP OT Splice</b> 	Silver 00240003 White 00240066
<b>SP Master Roller M Right (wire)</b>  $96 \text{ mm (3.8")}$ $81 \text{ mm (3.2")}$ $82 \text{ mm (3.2")}$ $\ell = 202 \text{ mm (8.0")}$	00510085	<b>SP One-way Adjuster</b> 	Silver 00240036 White 00510316		<b>Wire <math>\phi 1.5</math></b> 
<b>SP Master Roller M Left (wire)</b>  $96 \text{ mm (3.8")}$ $81 \text{ mm (3.2")}$ $\ell = 202 \text{ mm (8.0")}$	00510086	<b>SP Overlap Installation Kit M (wire)</b>  Pulley Set: 1 Master Roller Right: 1    Master Roller Left: 1 Adjuster: 1    Overlap Bracket: 1    Cord Clip: 10	00510024	<b>SP Cord Clip</b> 	
<b>SP Long Master Roller M Right (wire)</b>  $90 \text{ mm (3.5")}$ $66 \text{ mm (2.6")}$ $100 \text{ mm (3.9")}$ $\ell = 272 \text{ mm (10.7")}$	00510038	<b>Powerful Attachment No. 1 (available for New Delac)</b> 		00510061	<b>SP Overlap Bracket</b> 
<b>SP Long Master Roller M Left (wire)</b>  $90 \text{ mm (3.5")}$ $66 \text{ mm (2.6")}$ $100 \text{ mm (3.9")}$ $\ell = 272 \text{ mm (10.7")}$	00510036			<b>SP Pipe Hanger Bracket</b> for $\phi 28\text{--}43 \text{ mm (}\phi 1.1\text{--}1.7\text{")}$ 	00510021
				<b>Hanger Pipe Installation Aids</b> (available Theatrac) for $\phi 33\text{--}50 \text{ mm (}\phi 1.3\text{--}2.0\text{")}$ 	00510203

\*Please inquire of TOSO about 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 Curved Master Roller M Left  81 mm (3.2") 73 mm (2.9")		00510167	SP Curved Installation Aids  (for Pulley Set) (for Adjuster)
SP Roller  18 mm (.71")	00240011	SP Curved Pilot Roller Right  66 mm (2.6")	00510168	SP Curved Limit Switch A (for ceiling attachment) 	00510330	Powerful Attachment No. 1 	00510061
SP OM Roller  18 mm (.71")	00240010	SP Limit Switch A 	Silver	00510303	SP OT Splice 	Silver	00240003
SP Swing Roller with Ring 	00240059	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 $\phi$ 1.5 	00510072	
SP End Stop 	00240020	SP Limit Switch B 	Silver	00510304	SP Cord Clip 	00510029	
SP Pulley Set (wire) 	Silver	00510047	White	00510318			
	White	00510314					
SP One-way Adjuster 	Silver	00240036					
	White	00510316					

Powerful + Supertrac Parts (For Skylight and Slope Skylight)

Please inquire of TOSO about skylight and slope skylight.