

ST-ERS Series

Long travel type with Built In Roller Wheels



Ordering Information

ST 044 ERS . 100 . R120
 ① ② ③

① Pitch (mm)	② Inner Width	③ Bending Radius	 Size (Unit : mm)				Frame type	Weight (kg/m)
			A	B	C	D		
044	35	70	73	40.5	35	24.5		1.07
	55	90	93		1.16			
	75	120	113		1.23			
	100	150	138		1.33			
072	50	120	104	69	50	44		2.53
	75	145	129		2.65			
	100	200	154		2.77			
	125	250	179		2.89			
	150	300	204		3.01			
095	100	150	168	85	100	55		4.20
	125	200	193		4.45			
	150	230	218		4.70			
	175	280	243		4.95			
	200	400	268		5.19			
120	150	200	218	112	150	76		5.17
	200	250	268		5.48			
	250	300	318		5.78			
	290	350	368		6.09			
	300	500						

See page 65 - 66 for accessories

How to Choose Bending Radius

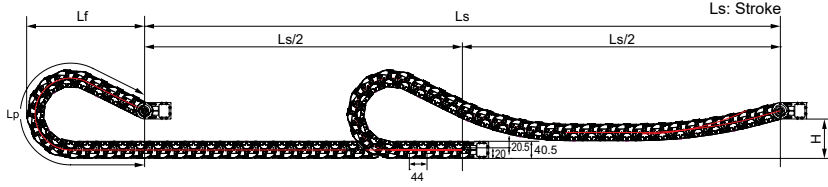
Bending Radius	The biggest Cable inserted	Multiply 8~10 by the OD of the biggest cable
	The biggest Hydraulic Hose inserted	Multiply 15~20 by the OD of the biggest hose

Specifications

Material	Polyamide with reinforced glass fiber: UL94-HB
Speed	3m/s
Acceleration	10m/s ²
Temperature	-30°C~+130°C
Certificate	CE, ATEX(Ex), RoHS

ST 044ERS

Calculation of the chain length



$$[L = \frac{Ls}{2} + Lp]$$

(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
70	544	249	110
90	662	289	
120	926	393	
150	1,190	497	

Accessories

Free end bracket					System tie wrap			Tie wrap				
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B	C
ST-FEB044E	73 93 113 138	40.5	35 55 75 100	24.5	0.4 20.4 40.4 65.4	S-TW.EB028.35 S-TW.EB028.55 S-TW.EB028.75 S-TW.EB028.100	35 55 75 100	M6 Bolt Holes	S-TW036/025CR.35 S-TW036/025CR.55 S-TW036/025CR.75 S-TW036/025CR.100	46 70 94 118	35.4 48.9 48.9 48.9	- 20 40 65

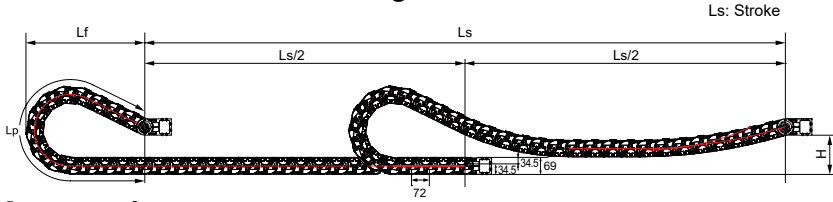
Dividers	<ul style="list-style-type: none"> ① S divider is used to fix a separator that is the same length as the frame ② M1 divider is used to separate individual cables ③ M2 divider is used to fasten a separator that is shorter than the frame length ④ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain 		
Separators		Ordering NO.	Frame
		S-SP/M.35 S-SP/M.55 S-SP/M.75 S-SP/M.100	35 55 75 100

Guide channel

A-Zone	C-Zone	Housing (U-Shape)
Side Panel		

ST 072ERS

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p]$$

(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
120	917	420	180
145	1,063	470	
200	1,400	580	
250	1,840	752	
300	2,280	924	

Accessories

Free end bracket						System tie wrap			Tie wrap		
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B
ST-FEB072	104 129 154 179 204	69	50 75 100 125 150	44	10 35 60 85 110	S-TW.EB045.50 S-TW.EB045.75 S-TW.EB045.100 S-TW.EB045.125 S-TW.EB045.150	50 75 100 125 150	M6 Bolt Holes	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

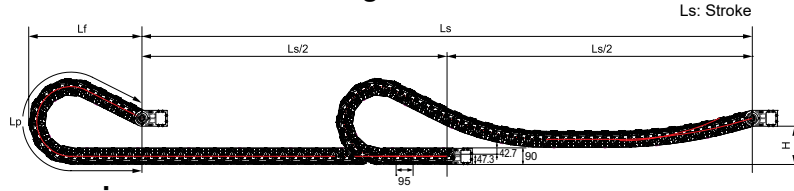
Dividers	① sb-DV045/S		② sb-DV045/M	
	<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M divider is used to separate individual cables</p> <p>③ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>			<p>③ sb-DV045/W</p>
Separators				
<p>System Tie Wrap</p> <p>Ordering NO.</p> <p>sb-SP/400.400 Cut to length(400 mm)</p>				

Guide channel

A-Zone	C-Zone	Housing (U-Shape)	
Side Panel			

ST 095ERS

Calculation of the chain length



$$[L = \frac{Ls}{2} + Lp]$$

(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
150	1,178	534	210
200	1,479	634	
230	1,666	694	
280	2,146	889	
400	3,232	1,319	

Accessories

Free end bracket						System tie wrap			Tie wrap		
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B
ST-FEB095	168 193 218 243 268	90	100 125 150 175 200	55	49 74 99 124 149	S-TW.EB060.100 S-TW.EB060.125 S-TW.EB060.150 S-TW.EB060.175 S-TW.EB060.200	100 125 150 175 200	M10 Bolt Holes	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

Dividers	① sb-DV060/S		② sb-DV060/M		
<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M divider is used to separate individual cables</p> <p>③ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>	<p>System Tie Wrap</p> <p>Ordering NO.</p> <p>sb-SP/400.400 Cut to length(400 mm)</p>				
Separators					

Guide channel

A- Zone	C- Zone	Housing (U-Shape)	
<p>Side Panel</p>			

