



nsb-E Series

Low Noise Enclosed type



Ordering Information

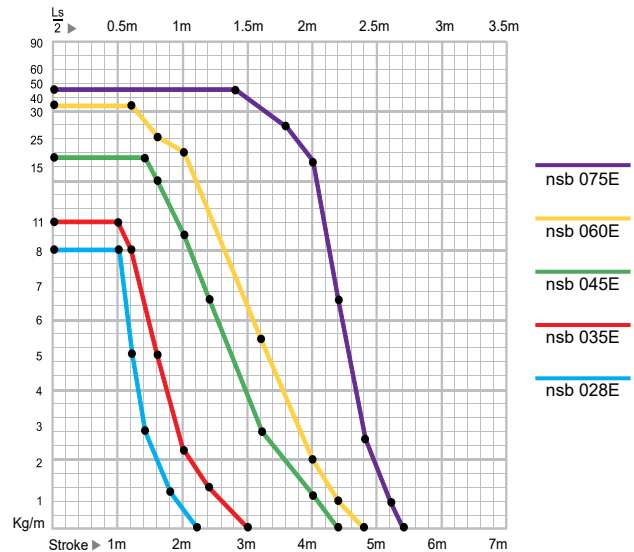
nsb 028 E . 50 . R66
 ① ② ③

① Pitch (mm)	② Inner Width	③ Bending Radius	Size (Unit : mm)				Frame type	Weight (kg/m)
			A	B	C	D		
028	35	66	55	38	35	26		1.00
	55	86	75		55			1.13
	75	116	95		75			1.30
	100	146	120		100			1.50
035	50	90	70	52	50	40		1.45
	75	115	95		75			1.64
	100	140	120		100			1.83
	125	165	145		125			2.06
	150	190	170		150			2.28
045	75	90	105	66	75	45		2.78
	100	110			100			3.07
	125	135			125			3.35
	150	165			150			3.58
		185			180			
060	100	125	140	82	100	56		4.32
	150	135			150			4.86
	200	150			200			5.41
		180						
		230						
075	150	160	190	108	150	78		7.01
	200	180			200			7.97
	300	230			300			9.48
		280						
		330						
		380						
	480							

Specifications

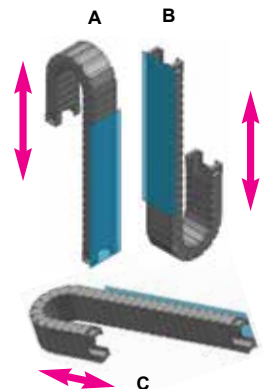
Material	Polyamide with reinforced glass fiber: UL94-HB
Noise Range	30dB
Speed	5m/s
Acceleration	15m/s ²
Temperature	-30°C~+130°C
Special Production	ESD, UV, Customized color
Certificate	CE, ATEX(Ex), RoHS

Unsupported Length



Other Length Restrictions

Type	Vertical standing (Max) A	Vertical Hanging (Max) B	Side Mounted Unsupported (Max) C
nsb 028E	2.0m	40m	1.0m
nsb 035E	3.0m	50m	1.0m
nsb 045E	6.0m	100m	2.5m
nsb 060E	6.0m	100m	3.0m
nsb 075E	6.0m	120m	3.0m



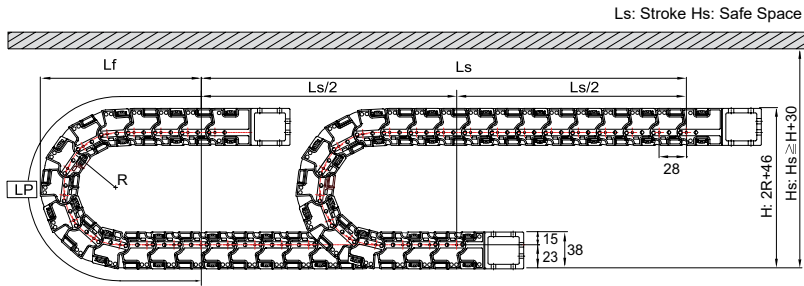
How to Choose Bending Radius

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

See page 65 - 66 for accessories

nsb 028E

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p] \quad (\text{Unit : mm})$$

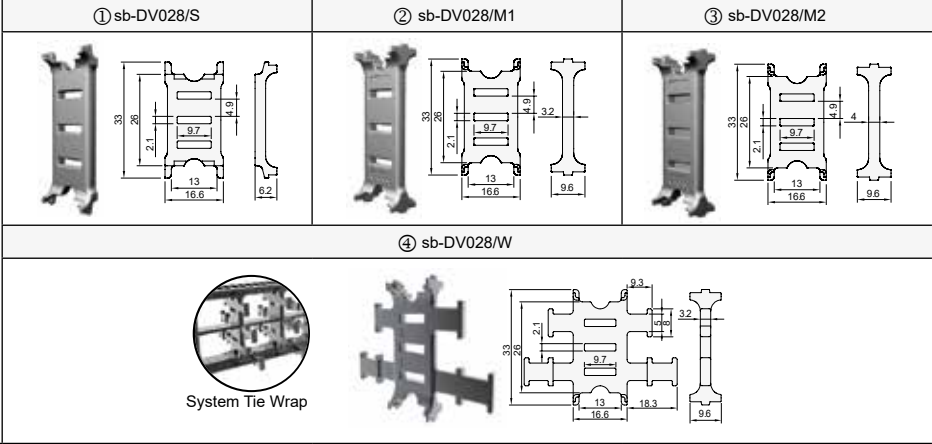
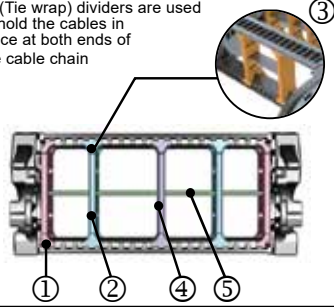
Bending Radius (R)	Lp Loop Length	Lf Loop Projection	H Moving Height
66	376	173	178
86	439	193	218
116	533	223	278
146	627	253	338

Accessories

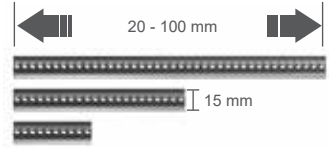
Free end bracket						System tie wrap			Tie wrap			
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B	C
nsb-FEB028E	60.4 80.4 100.4 125.4	38	35 55 75 100	26	0.4 20.4 40.4 65.4	S-TW.EB028.35 S-TW.EB028.55 S-TW.EB028.75 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

- 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



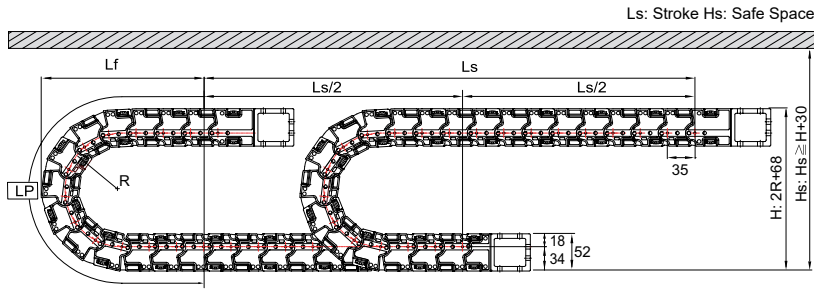
Separators



Ordering NO.	Frame
S-SP/M.35	35
S-SP/M.55	55
S-SP/M.75	75
S-SP/M.100	100

nsb 035E

Calculation of the chain length



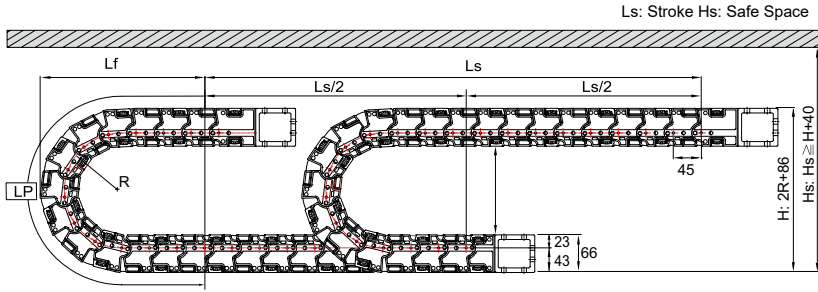
Accessories

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	D
nsb-FEB035E	79	52	50	40	18	S-TW.EB035.50	50	M6 Bolt Holes	S-TW050/035N.50	82	64.5	12.00	5
	104		43		S-TW.EB035.75	75	S-TW050/035N.75		107	12.13		30	
	129		68		S-TW.EB035.100	100	S-TW050/035N.100		132	15.25		55	
	154		93		S-TW.EB035.125	125	S-TW050/035N.125		157	14.70		80	
	179		118		S-TW.EB035.150	150	S-TW050/035N.150		182	14.35		105	

Dividers	<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M1 divider is used to separate individual cables</p> <p>③ M2 divider is used to fasten a separator that is shorter than the frame length</p> <p>④ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>			
		<p>① sb-DV035/S</p>	<p>② sb-DV035/M1</p>	<p>③ sb-DV035/M2</p>
	<p>④ sb-DV035/W</p>			
Separators	<p>20 - 150 mm</p>		Ordering NO.	Frame
			<p>S-SP/M.50</p> <p>S-SP/M.75</p> <p>S-SP/M.100</p> <p>S-SP/M.125</p> <p>S-SP/M.150</p>	<p>50</p> <p>75</p> <p>100</p> <p>125</p> <p>150</p>

nsb 045E

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p] \quad (\text{Unit : mm})$$

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
90	633	291	266
110	695	311	306
135	774	336	356
165	868	366	416
185	931	386	456
235	1,088	436	556
285	1,245	486	656

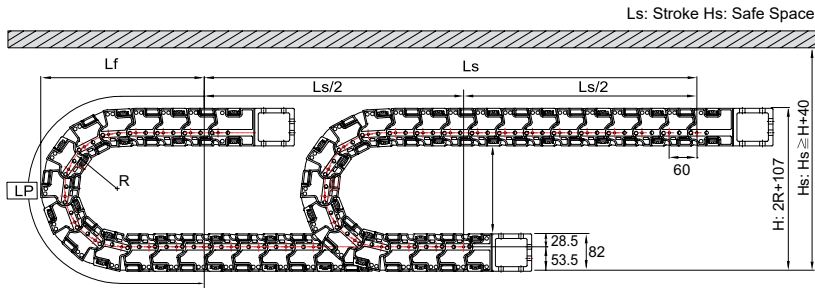
Accessories

Steel 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
nsb-FEB045E	111 136 161 186	66	75 100 125 150	45	35 60 85 110	S- TW.EB045.75 S- TW.EB045.100 S- TW.EB045.125 S- TW.EB045.150	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	<ul style="list-style-type: none"> ① S divider is used to fix a separator that is the same length as the frame ② M divider is used to separate individual cables ③ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain 	
Separators		
	Ordering NO. sb-SP/400.400 Cut to length (400 mm)	

nsb 060E

Calculation of the chain length



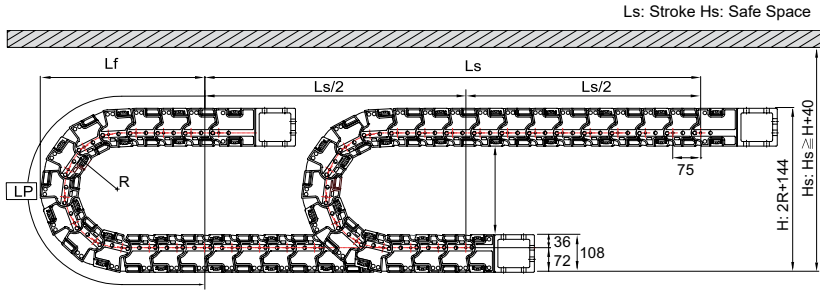
Accessories

Steel 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
nsb-FEB060E	140 190 240	82	100 150 200	56	49 99 149	S-TW.EB060.100 S-TW.EB060.150 S-TW.EB060.200	100 150 200	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		③ sb-DV060/R	
	<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 R Side position roller divider to protect abrasion of moving cable at inner side of chain</p> <p>④ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>						
	④ sb-DV060/W						
	<p>System Tie Wrap</p>						
Separators	Ordering NO.						
	<p>sb-SP/400.400 Cut to length (400 mm)</p>						

nsb 075E

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
160	1,084	495	464
180	1,147	515	504
230	1,304	565	604
280	1,461	615	704
330	1,618	665	804
380	1,775	715	904
480	2,089	815	1,104

Accessories

Steel end bracket						System tie wrap			Tie wrap		
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B
nsb-FEB075E	200 250 350	108	150 200 300	78	90 140 240	S-TW.EB075.150 S-TW.EB075.200 S-TW.EB075.300	150 200 300	M10 Bolt Holes	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

Dividers	<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 R Side position roller divider to protect abrasion of moving cable at inner side of chain</p> <p>④ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>	<p>① sb-DV075/S</p>	<p>② sb-DV075/M</p>	<p>③ sb-DV075/R</p>	
		<p>④ sb-DV075/W</p>			
		<p>System Tie Wrap</p>			
		<p>Ordering NO.</p> <p>sb-SP/600.600 Cut to length (600 mm)</p>			
⑤ Separators					