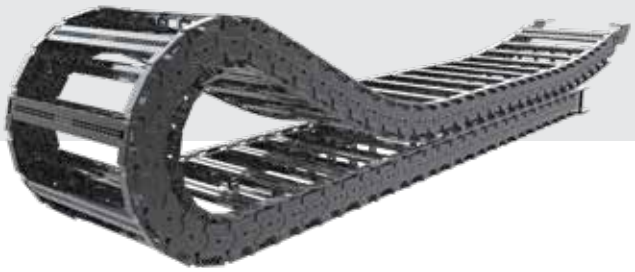


nsb-S Series

Low Noise, Long Travel Type

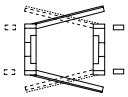
- Silent running-30dB
- Fit for high speed applications
- Low dust

RoHS CE Ex

Ordering Information

nsb 044 S . 100 . R185

① ② ③

① Pitch (mm)	② Inner Width	③ Bending Radius	Size (Unit : mm) A	B	C	D	Frame type	Weight (kg/m)
050	50 75 100 125 150 175 200 250 300	110 135 165 185 235 285	104 129 154 179 194 204 219 229 244 254 294 304 354	71.5	50 75 100 125 140 150 165 175 190 200 240 250 300	45		2.38 2.44 2.51 2.61 2.67 2.71 2.76 2.80 2.97 3.09 3.32 3.38 3.63
065	75 100 125 150 175 190 200 240 250 300 350 400	140 190 220 270 390	137 162 187 212 237 252 262 302 312 362 412 462	89	75 100 125 150 175 190 200 240 250 300 350 400	56		3.29 3.34 3.49 3.58 3.68 3.76 3.82 3.99 4.03 4.24 4.53 4.85
080	75 100 125 150 175 200 250 300 350 400 450 500 550 600	180 200 250 300 350 400 500	143 168 183 193 218 243 268 308 318 358 368 418 468 518 568 618 668	115	75 100 115 125 150 175 200 240 250 290 300 350 400 450 500 550 600	76		4.27 4.36 4.43 4.47 4.57 4.67 4.85 5.03 5.07 5.33 5.40 5.71 6.09 6.28 6.45 7.08 7.20

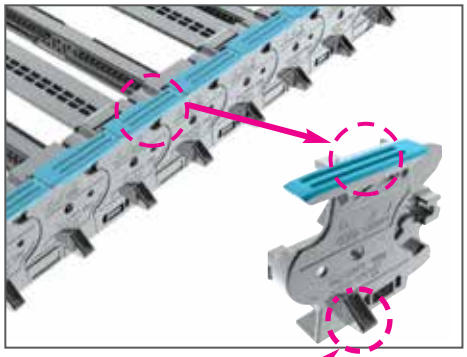
How to Choose Bending Radius

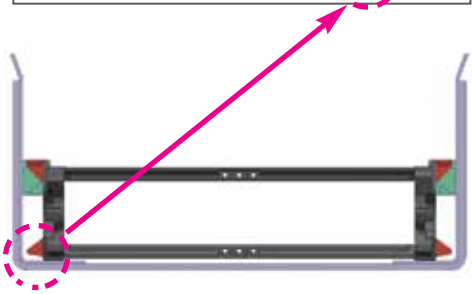
Bending Radius	The biggest Cable inserted	Multiply 8~10 by the OD of the biggest cable
	The biggest Hydraulic Hose inserted	Multiply 15~20 by the OD of the biggest hose

Specifications

Material	CPS-Amid(PA6+GF)
Noise Range	30dB
Speed	3m/s
Acceleration	10m/s²
Temperature	-30°C~+130°C
Certificate	CE, ATEX(Ex), RoHS

nsb chain is designed to minimize dust as forming the groove on skid surface and by installing sliding bar (Nylon) which is same material with nsb cable chain on guide channel



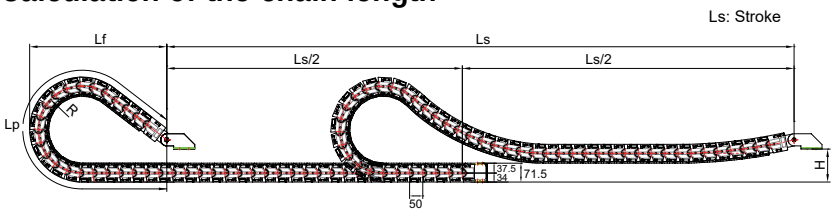


The side supports allow it to maintain a stable operation, making it suitable for high speed applications.

See page 65 - 66 for accessories

nsb 050S

Calculation of the chain length



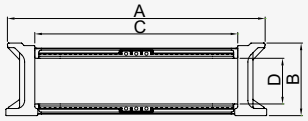
$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

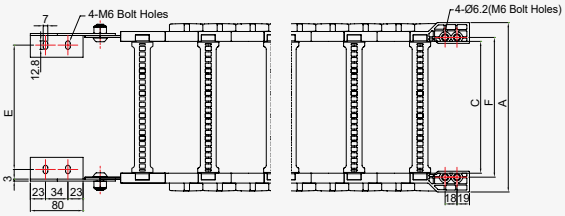
(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
110	916	380	180
135	1,068	430	
165	1,255	490	
185	1,382	530	
235	1,703	630	
285	2,029	730	

Accessories

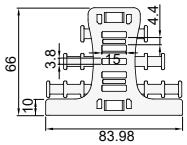
Free/Steel end bracket

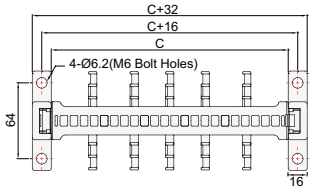




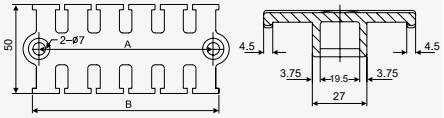
Moving Point Fixing Point

System tie wrap





Tie wrap



Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	F F.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B
nsb-FEB050S /F nsb-FEB050S /M(SEB)(Steel)	104	71.5		45	38.7	62	S-TW.EB045.50	50	M6 Bolt Holes	S- TW50	58	65
	129				63.7	87	S-TW.EB045.75	75		S- TW75	75	82
	154		50		88.7	112	S-TW.EB045.100	100		S- TW100	98	105
	179		75		113.7	137	S-TW.EB045.125	125		S- TW125	122	129
	194		100		128.7	152	S-TW.EB045.140	140		S- TW150	141	148
	204		125		138.7	162	S-TW.EB045.150	150				
	219		150		153.7	177	S-TW.EB045.165	165				
	229		175		163.7	187	S-TW.EB045.175	175				
	244		200		178.7	202	S-TW.EB045.190	190				
	254		250		188.7	212	S-TW.EB045.200	200				
	294		300		228.7	252	S-TW.EB045.240	240				
	304				238.7	262	S-TW.EB045.250	250				
	354				288.7	312	S-TW.EB045.300	300				

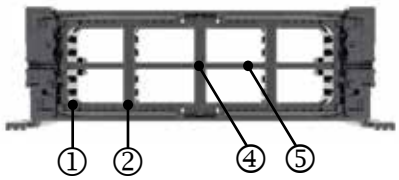
Dividers

①**S** divider is used to fix a separator that is the same length as the frame

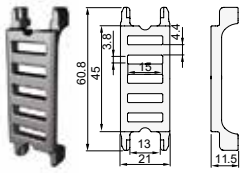
②**M** divider is used to separate individual cables

③**T** divider can be used at center position to support frame longer than 200mm and up

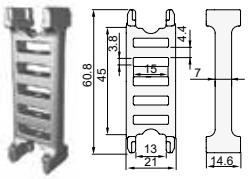
④**W** (Tie wrap) dividers are used to hold the cables in place at both ends ofthe cable chain



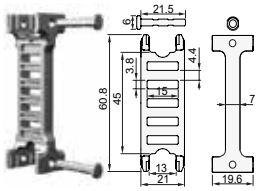
① sb-DV045/S



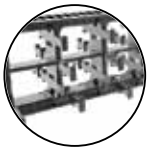
② sb-DV045/M



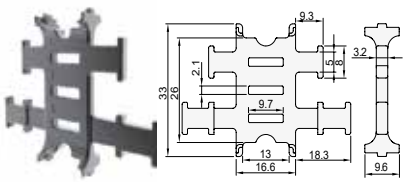
③ sb-DV045/T



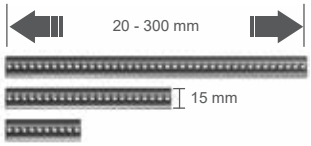
④ sb-DV045/W



System Tie Wrap



⑤ Separators



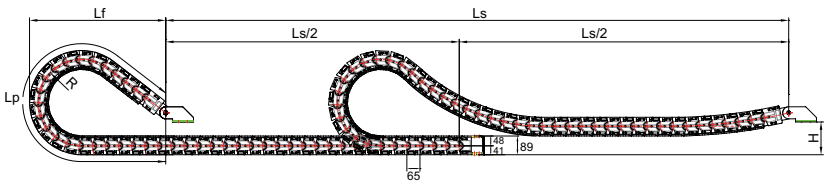
Ordering NO.

sb-SP/400.400
Cut to length (400 mm)

nsb 065S

Calculation of the chain length

Ls: Stroke



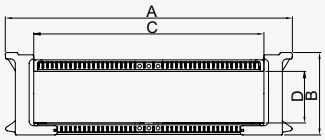
$$[\ L = \frac{Ls}{2} + Lp\ ]$$

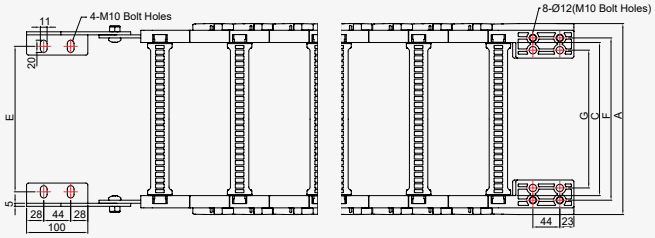
(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
140	1,225	615	
190	1,543	715	
220	1,734	775	210
270	2,052	875	
390	2,814	1,115	

Accessories

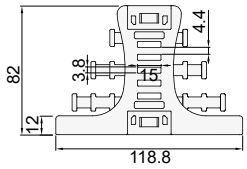
Free/Steel end bracket

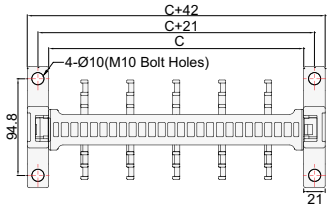




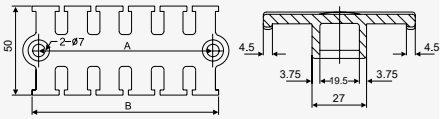
Moving Point Fixing Point

System tie wrap





Tie wrap



Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	F F.EB Bolt hole width	G F.EB Bolt width
nsb-FEB065S /F nsb-FEB065S /M(SEB)(Steel	137	89	75	56	62.6	90	50
	162		100		87.6	115	75
	187		125		112.6	140	100
	212		150		137.6	165	125
	237		175		162.6	190	150
	252		190		177.6	205	165
	262		200		187.6	215	175
	292		230		217.6	245	205
	302		240		227.6	255	215
	312		250		237.6	265	225
	362		300		287.6	315	275
	412		350		337.6	365	325
	462		400		387.6	415	375

Ordering No.	C Frame	Hole Type
S-TW.EB060.75	75	M10 Bolt Holes
S-TW.EB060.100	100	
S-TW.EB060.125	125	
S-TW.EB060.150	150	
S-TW.EB060.175	175	
S-TW.EB060.190	190	
S-TW.EB060.200	200	
S-TW.EB060.230	230	
S-TW.EB060.240	240	
S-TW.EB060.250	250	
S-TW.EB060.300	300	
S-TW.EB060.350	350	
S-TW.EB060.400	400	

Ordering No.	A	B
S- TW50	58	65
S-TW75	75	82
S-TW100	98	105
S-TW125	122	129
S-TW150	141	148

Dividers

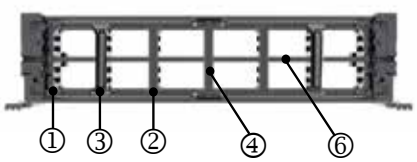
①**S** divider is used to fix a separator that is the same length as the frame

②**M** divider is used to separate individual cables

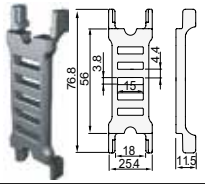
③**R** Side position roller divider to protect abrasion of moving cable at inner side of chain

④**T** divider can be used at center position to support frame longer than 200mm and up

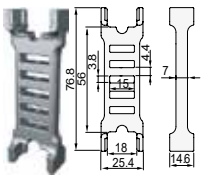
⑤**W** (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain



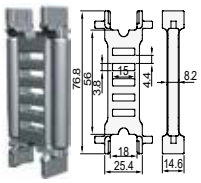
① sb-DV060/S



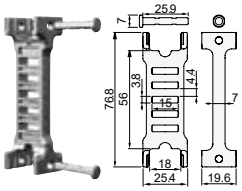
② sb-DV060/M



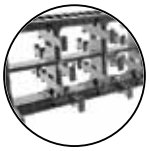
③ sb-DV060/R



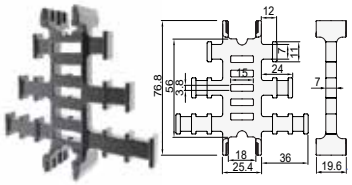
④ sb-DV060/T



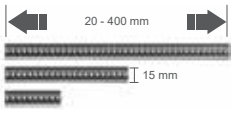
⑤ sb-DV060/W



System Tie Wrap



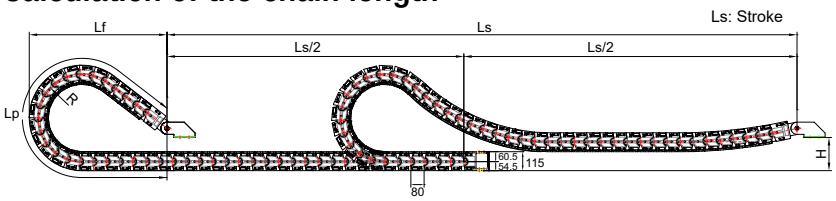
⑥ Separators



Ordering NO.
sb-SP/400.400 Cut to length (400 mm)

nsb 080S

Calculation of the chain length



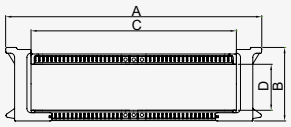
$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

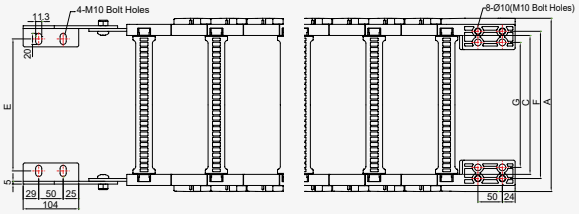
(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
180	1,490	690	260
200	1,617	730	
250	1,935	830	
300	2,253	930	
350	2,571	1,030	
400	2,889	1,130	
500	3,524	1,330	

Accessories

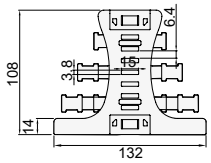
Free/Steel end bracket

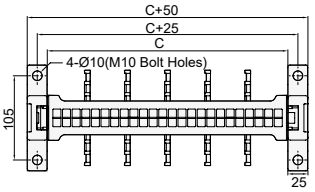




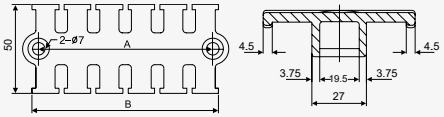
Moving Point Fixing Point

System tie wrap





Tie wrap



Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	F F.EB Bolt hole width	G F.EB Bolt width
NSB-FEB080S /F NSB-FEB080S /M(SEB)(Steel)	143 168 183 193 218 243 268 308 318 358 368 418 468 518 568 618 668	115	75 100 125 150 175 200 250 300 350 400 450 500 550 600	78	63 88 103 113 138 163 188 228 238 278 288 338 388 438 488 538 588	104 129 144 154 179 204 229 269 279 319 329 379 429 479 529 579 629	47 72 87 97 122 147 172 212 222 262 272 322 372 422 472 522 572

Ordering No.	C Frame	Hole Type
S-TW.EB075.75	75	M10 Bolt Holes
S-TW.EB075.100	100	
S-TW.EB075.115	115	
S-TW.EB075.125	125	
S-TW.EB075.150	150	
S-TW.EB075.175	175	
S-TW.EB075.200	200	
S-TW.EB075.240	240	
S-TW.EB075.250	250	
S-TW.EB075.290	290	
S-TW.EB075.300	300	
S-TW.EB075.350	350	
S-TW.EB075.400	400	
S-TW.EB075.450	450	
S-TW.EB075.500	500	
S-TW.EB075.550	550	
S-TW.EB075.600	600	

Ordering No.	A	B
S-TW50	58	65
S-TW75	75	82
S-TW100	98	105
S-TW125	122	129
S-TW150	141	148

Dividers

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**R** Side position roller divider to protect abrasion of moving cable at inner side of chain

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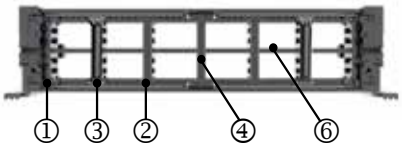
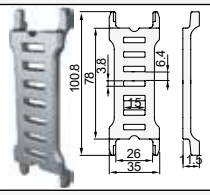
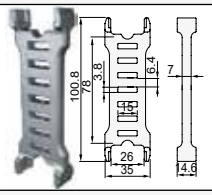
⑤**W** (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain



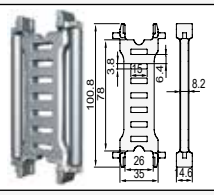
① sb-DV075/S



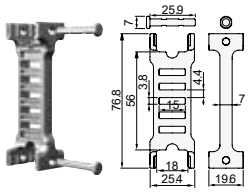
② sb-DV075/M



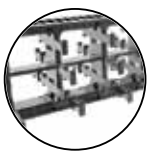
③ sb-DV075/R



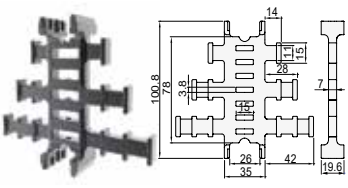
④ sb-DV075/T



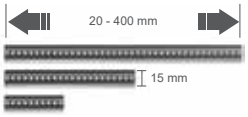
⑤ sb-DV075/W



System Tie Wrap



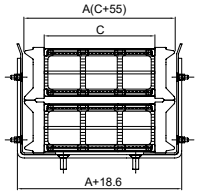
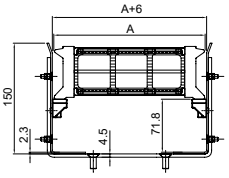
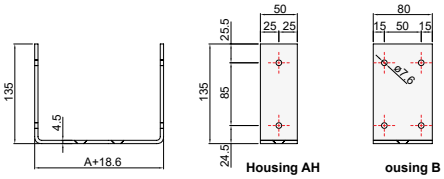
⑥Separators



Ordering NO.
sb-SP/600.600 Cut to length (600 mm)

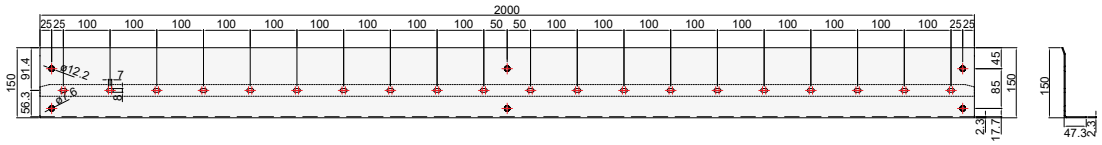
Guide channel

nsb 050S

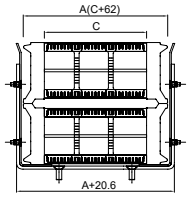
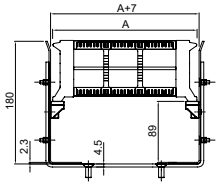
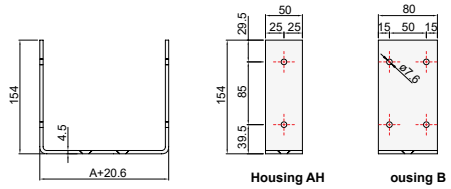
A- Zone	C-Zone	Housing (U-Shape)
		

A	C
104	50
129	75
154	100
179	125
194	140
204	150
219	165
229	175
244	190
254	200
294	240
304	250
354	300

Side Panel

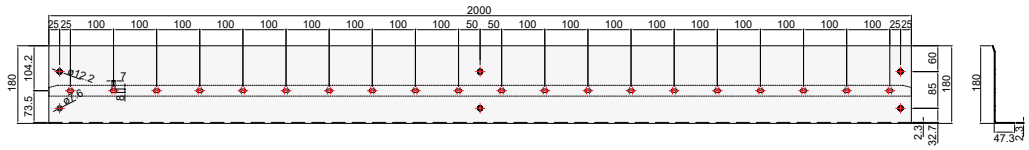


nsb 065S

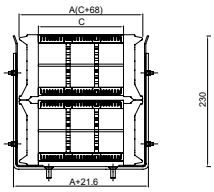
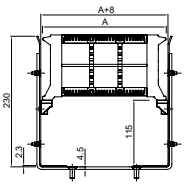
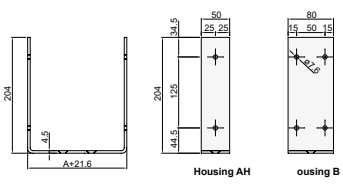
A- Zone	C-Zone	Housing (U-Shape)
		

A	C
137	100
162	125
187	150
212	175
237	190
252	200
262	240
302	250
312	300
362	350
412	400
462	

Side Panel



nsb 080S

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

A	C
143	75
168	100
183	115
193	125
218	150
243	175
268	200
308	240
318	250
358	290
368	300
418	350
468	400
518	450
568	500
618	550
668	600

Side Panel