

nsb Chain - Normal type

>> General information

Item	Value
Material	CPS-Amid(PA6+GF), RoHs
Speed	5 ^m /s
Acceleration	15 ^m /s
Temperature	-30℃ ~+130℃
Special production	ESD, UV, Customized color
Certificate	CE, ATEX(Ex)

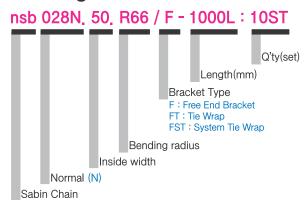
>> Calculation table

Item	Value
Length of Cable Chain	L = ½ X LS + LP
Bending Radius	
The biggest Cable inserted	Multiply 8~10 and the biggest cable
The biggest Hydraulic Hose inserted	Multiply 15~20 and the biggest hose

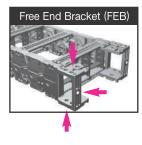
» Dimension table

		Bending Radlus									
nsb Chain N Type	Pitch	(R)	Weight kg/m	Speed m/s	Temperature °C		□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		Frame style	Section - composition	
		<u></u>				Α	В	С	D		
nsb 028N	28	46, 66, 86, 116, 146	0.79 0.82 0.85 0.90 0.98 1.08 1.18 1.45 1.59	5	-30 ~ +130	55 70 75 95 120 145 170 195 220	38	35 50 55 75 100 125 150 175 200	26		
nsb 035N	35	55, 65, 90, 115, 140, 190	1.10 1.13 1.15 1.18 1.25 1.32 1.41 1.62 1.72	5	-30 ~ +130	55 70 75 95 120 145 170 195 220	52	35 50 55 75 100 125 150 175 200	40		
nsb 045N	45	90, 110, 135, 165, 185, 235, 285	2.06 2.14 2.22 2.32 2.38 2.42 2.47 2.51 2.72 2.86 3.09 3.15 3.43	5	-30 ~ +130	80 105 130 155 170 180 195 205 220 230 270 280 330	66	50 75 100 125 140 150 165 175 190 200 240 250 300	45		
nsb 060N	60	125, 135, 150, 180 230, 270, 340	3.30 3.35 3.51 3.60 3.69 3.78 3.84 4.01 4.05 4.26 4.57 4.85	5	-30 ~ +130	115 140 165 190 215 230 240 280 290 340 390 440	82	75 100 125 150 175 190 200 240 250 300 350 400	56		
nsb 075N	75	160, 180, 230, 280, 330, 380, 480	4.80 4.90 4.97 5.02 5.12 5.25 5.46 5.72 6.02 6.45 6.83 7.12 7.32 8.06 8.20	5	-30 ~ +130	115 140 155 165 190 215 240 280 290 330 340 390 440 490 540 590 640	108	75 100 115 125 150 175 200 240 250 290 300 350 400 450 500 600	78		

>>> Ordering



>>> Bracket type



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» Application of nsb Chain Normal type

- nsb Chain can be applied to all kinds of machine tools and factory lines.

► NSB 045N & 035N

Application
Machine tools
Location
Korea
Remark
Stroke: 2 meters





► NSB 060N

Application
Machine tools
Location
Korea
Remark
Stroke: 2 meters





► NSB 045N

Application Factory production line Location Korea

- CPS can produce customized product for customers for ESD and special color.

► NSB 035N



Application
PCTC Ship
Location
Korea (H-heavy industry)
Remark
ESD, Orange color



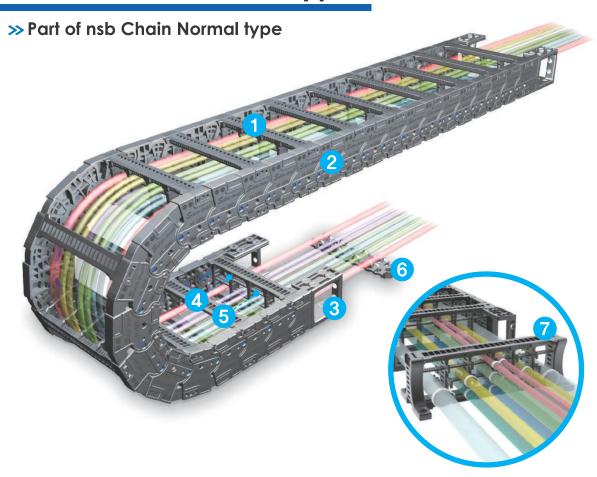




🜙 تلفن : 33951660 - 33913364 (021)



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1 Frame (FR)

Hinged-type frame, open one side, supports connection of both side of side band and have tongue and groove system plate to secure the position of the divider on the frame.

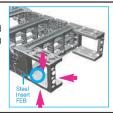


2 Side Band (SB)

It's part of cable chain that each side band's connected by holding $\mathsf{band}_{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$

3 FREE END BRACKET (FEB)

A unit that connects at last side band (left&right). It can be fixed stronger using steel washers.



4 Dividers (DV)

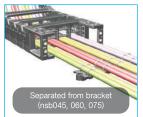
Divider sets the inside of chain vertically to prevent cable from twisting and sheath damage caused by friction. There are S, M, R and T type.

6 Separators (SP)

A unit that divides inserted cables vertically to prevent twisting and breaking problem.

Tie wrap (TW)

A unit that ties cables to maintain straightness of them.
It can be assembled to bracket directly or installed separately from bracket





System tie wrap (STW)

System-Tie Wrap has to be assembled on fixing and moving point of bracket and can be assembled wthout any tie wrap plate. This tie wrap is used to stay the cables on several floors prevent the cables from being twisting and it can also be assemble without any tools or bolt. This tie wrap has two types, one is to assemble inside bracket the other one is outside.

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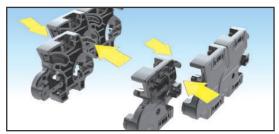


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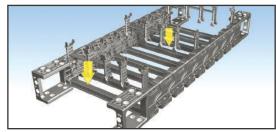


» Assembly procedure of nsb Chain Normal Type

The assembling process of CR-Type of New Sabin Chain is like below and user must use rubber hammer with careful combination of Divider and Separator.



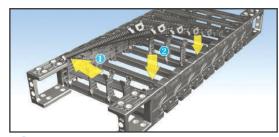
Connect each side band as many as you need,



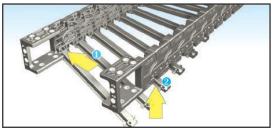
Fix the separator and divider patterns to the bottom-side frames as needed,



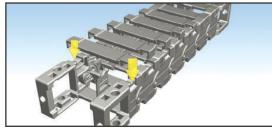
Assemble the end brackets on both ends.



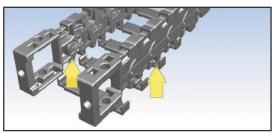
Attach frames to one side groove on the frames, then the other side.



Attach frames to one side groove on the frames, then the



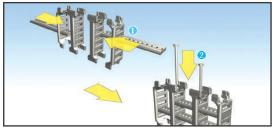
For nsb020CR and nsb022CR, they are not Hinge Type for method to connect frames, but Hook Type



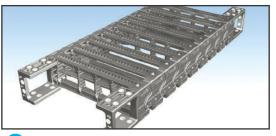
For nsb020CR and nsb022CR, they are not Hinge Type for method to connect frames, but Hook Type on both sides,



Insert frame pins to secure the frames and complete carrier. (nsb045, 060, 075 are applied with frame pin, and nsb028, 035 are Hinge Type or Hook Type without frame pin.)



For nsb 045, 060, and 075, connect the pin of separator in hole of divider after inserting separator in hole of divider. For nsb028 and nsb035, separator fixing pins are not used.



Complete to assemble New Sabin CR-Type, Sabin Chain,





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>>> Part list of nsb Chain Normal type

- Composition of Cable chain(Standard)
 - = Side band(RH) + Frame + Side band(LH) + Bending radius Unit + Free end bracket
- M divider(normal divider) should be applied every second frames to make a section composition.
- * Please refer to below part list and description to understand composition of cable chain.

Model	Classification	Part number	Description
	SIDE BAND	nsb-SB028N,R*(RH) nsb-SB028N,R*(LH)	Left side band of nsb028N Right side band of nsb028N
	FRAME	sb-FR/M.35 sb-FR/M.50 sb-FR/M.55 sb-FR/M.75 sb-FR/M.100 sb-FR/M.125 sb-FR/M.175 sb-FR/M.175	Frame, 35mm Frame, 55mm Frame, 55mm Frame, 75mm Frame, 100mm Frame, 125mm Frame, 125mm Frame, 175mm Frame, 175mm Frame, 175mm Frame, 175mm
	FREE END BRACKET	nsb-FEB028N	End bracket of nsb028N
	DIVIDER	sb-DV028/M sb-DV028/S	Normal divider To fix separstors at the both side section
nsb028N	SEPARATOR	S-SP/M,35 S-SP/M,50 S-SP/M,75 S-SP/M,100 S-SP/M,125 S-SP/M,150 S-SP/M,175 S-SP/M,200	Separator, 35mm Separator, 75mm Separator, 75mm Separator, 100mm Separator, 125mm Separator, 150mm Separator, 175mm Separator, 175mm
	TIE WRAP	S-TW036/025CR.35 S-TW036/025CR.55 S-TW036/025CR.75 S-TW036/025CR.100 S-TW036/025CR.125	Tie wrap for end bracket to fix cables, 35mm Tie wrap for end bracket to fix cables, 55mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm
	SYSTEM TIE WRAP	sb-DV028/W S-TW.EB028	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket

Model	Classification	Part number	Description
Woder	SIDE BAND	nsb-SB035N,R*(LH) nsb-SB035N,R*(RH)	Left side band of nsb035N Right side band of nsb035N
	FRAME	sb-FR/M.35 sb-FR/M.50 sb-FR/M.55 sb-FR/M.100 sb-FR/M.125 sb-FR/M.175 sb-FR/M.175 sb-FR/M.200	Frame, 35mm Frame, 50mm Frame, 55mm Frame, 75mm Frame, 100mm Frame, 125mm Frame, 150mm Frame, 150mm Frame, 25mm
	FREE END BRACKET	nsb-FEB035N	End bracket of nsb035N
	DIVIDER	sb-DV035/M sb-DV035/S	Normal divider To fix separstors at the both side section
nsb035N	SEPARATOR	S-SP/M,35 S-SP/M,50 S-SP/M,75 S-SP/M,100 S-SP/M,125 S-SP/M,175 S-SP/M,175 S-SP/M,200	Separator, 35mm Separator, 75mm Separator, 75mm Separator, 100mm Separator, 125mm Separator, 125mm Separator, 175mm Separator, 175mm Separator, 175mm
	TIE WRAP	S-TW050/035N.50 S-TW050/035N.75 S-TW050/035N.100 S-TW050/035N.125 S-TW050/035N.150 S-TW050/035N.150 S-TW050/035N.200	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm Tie wrap for end bracket to fix cables, 150mm Tie wrap for end bracket to fix cables, 200mm Tie wrap for end bracket to fix cables, 200mm
	SYSTEM TIE WRAP	sb-DV035/W S-TW.EB035	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket

Model	Classification	Part number	Description
	SIDE BAND	nsb-SB045N,R*(LH) nsb-SB045N,R*(RH)	Left side band of nsb045N Right side band of nsb045N
	FRAME PIN	S-FP/S1	Frame pin
nsb045N	FRAME	sb-FR/M,50 sb-FR/M,75 sb-FR/M,100 sb-FR/M,125 sb-FR/M,140 sb-FR/M,150 sb-FR/M,165 sb-FR/M,190 sb-FR/M,200 sb-FR/M,240 sb-FR/M,250 sb-FR/M,300	Frame, 50mm Frame, 55mm Frame, 100mm Frame, 125mm Frame, 125mm Frame, 140mm Frame, 165mm Frame, 165mm Frame, 175mm Frame, 175mm Frame, 175mm Frame, 200mm Frame, 200mm Frame, 200mm Frame, 250mm Frame, 250mm Frame, 250mm Frame, 250mm Frame, 250mm
	FREE END BRACKET	nsb-FEB045N sb-FEB/WH045	End bracket of nsb045N Steel washer for end bracket
	DIVIDER	sb-DV045/M sb-DV045/S sb-DV045/T	Normal divider To fix separstors at the both side section T divider
	SEPARATOR	sb-SP/400.400 SP-PIN045	Separator, 400mm Separator pin to fix
	TIE WRAP	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm
	SYSTEM TIE WRAP	sb-DV045/W S-TWEB045	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket

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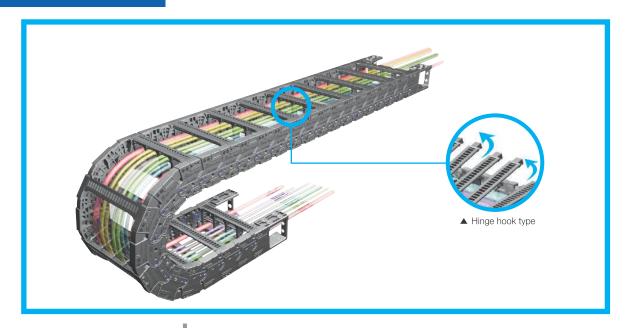
Model	Classification	Part number	Description
	SIDE BAND	nsb-SB060N.R*(LH) nsb-SB060N.R*(RH)	Left side band of nsb060N Right side band of nsb060N
	FRAME PIN	S-FP/S1	Frame pin
	FRAME	sb-FR/M.75 sb-FR/M.100 sb-FR/M.125 sb-FR/M.150 sb-FR/M.175 sb-FR/M.190 sb-FR/M.200 sb-FR/M.230 sb-FR/M.350 sb-FR/M.350 sb-FR/M.350 sb-FR/M.400	Frame, 75mm Frame, 100mm Frame, 125mm Frame, 150mm Frame, 175mm Frame, 190mm Frame, 200mm Frame, 230mm Frame, 250mm Frame, 350mm Frame, 350mm Frame, 300mm Frame, 300mm
nsb060N	FREE END BRACKET	nsb-FEB060N sb-FEB/WH060	End bracket of nsb060N Steel washer for end bracket
	DIVIDER	sb-DV060/M sb-DV060/S sb-DV060/R sb-DV060/T sb-DV060/TP	Normal divider To fix separators at the both side section Roller divider to reduce friction with cables, Clean room type T divider T divider pin
	SEPARATOR	sb-SP/400.400 SP-PIN060	Separator, 400mm Separator pin to fix
	TIE WRAP	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm
	SYSTEM TIE WRAP	sb-DV060/W S-TW.EB060	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket

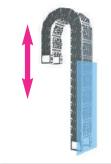
Model	Classification	Part number	Description
	SIDE BAND	nsb-SB075N.R*(LH) nsb-SB075N.R*(RH)	Left side band of nsb075N Right side band of nsb075N
	FRAME PIN	S-FP/S2	Frame pin
nsb075N	FRAME	sb-FR075/100.75 sb-FR075/100.100 sb-FR075/100.115 sb-FR075/100.125 sb-FR075/100.125 sb-FR075/100.175 sb-FR075/100.200 sb-FR075/100.240 sb-FR075/100.250 sb-FR075/100.290 sb-FR075/100.300 sb-FR075/100.350 sb-FR075/100.450 sb-FR075/100.450 sb-FR075/100.500 sb-FR075/100.500 sb-FR075/100.550 sb-FR075/100.600	Frame, 75mm Frame, 100mm Frame, 115mm Frame, 125mm Frame, 150mm Frame, 150mm Frame, 200mm Frame, 240mm Frame, 240mm Frame, 250mm Frame, 290mm Frame, 300mm Frame, 300mm Frame, 300mm Frame, 350mm Frame, 400mm Frame, 450mm Frame, 500mm Frame, 500mm Frame, 500mm Frame, 500mm Frame, 600mm
	FREE END BRACKET	nsb-FEB075N sb-FEB/WH075	End bracket of nsb075N Steel washer for end bracket
	DIVIDER	sb-DV075/M sb-DV075/S sb-DV075/R sb-DV075/T sb-DV075/TP	Normal divider To fix separstors at the both side section Roller divider to reduce friction with cables, Clean room type T divider T divider
	SEPARATOR	sb-SP/400,400 SP-PIN075	Separator, 400mm Separator pin to fix
	TIE WRAP	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm
	SYSTEM TIE WRAP	sb-DV075/W S-TW.EB075	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket



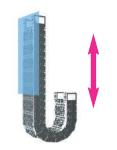


nsb 028N





Vertical with curve above



Vertical with curve below



Horizontal application mounted on its side

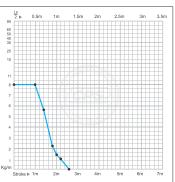
» Calculation of the chain length

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

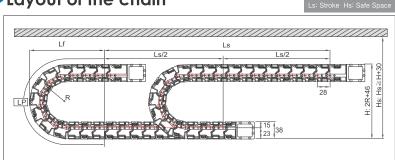
>> Other installation length

Vertical curve above = max 2.0m Vertical curve below = max 40m Side Mounted, Unsupported = max 1.0m

» Load diagrams selfsupporting length



»Layout of the chain



Bending Radius (R)	Lp	Lf	H
	Loop Length	Loof Projection	Moving Height
46	313	153	138
66	376	173	178
86	439	193	218
116	533	223	278
146	627	253	338

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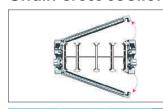
Email: Borhan772000@yahoo.com

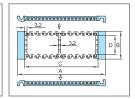


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>> Chain cross section

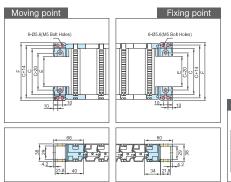




Chain Type	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	Weight kg/m
nsb 028N	55 70 75 95 120 145 170 195 220	38	35 50 55 75 100 125 150 175 200	26	0.79 0.82 0.85 0.90 0.98 1.08 1.18 1.45

(Dimensions in mm)

>>> Free end bracket

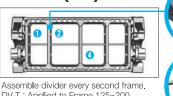


Front point	
2-95.6(M5 Balt Holes)	
F-11.4 F	

(Chain Type	F Width(Outer)	B Height(Outer)	C Frame	D Height(Inner)	E M_EB Bolt hole width	Hole Type
	nsb 028N	60.4 75.4 80.4 100.4 125.4 150.4 175.4 200.4 225.4	38	35 50 55 75 100 125 150 175 200	26	0.4 15.4 20.4 40.4 65.4 90.4 115.4 140.4 165.4	M5 Bolt Holes

(Dimensions in mm)

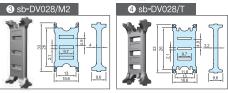
>>> Dividers(DV)

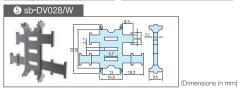


DV.T: Applied to Frame 125~200. DV.M: Normal Divider.

DV.W : Applicable to System Tie Wrap or FEB

1 sb-DV028/S	2 sb-DV028/M1
3 8 13 13 62	3 3 32 32 32 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35
O D) (000 /) (0	A D)/000/T





>> Separators(SP)

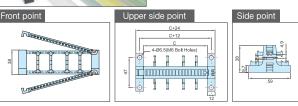


Chain Type	Ordering NO.	Frame
nsb 028N	S-SP/M.35 S-SP/M.50 S-SP/M.55 S-SP/M.75 S-SP/M.100 S-SP/M.125 S-SP/M.150 S-SP/M.175 S-SP/M.200	35 50 55 75 100 125 150 175 200

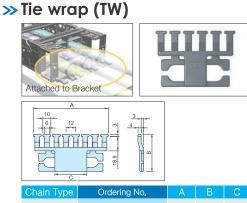
>> System tie wrap (STW)



It is a unit to classify each cable for preventing entanglement of cables. It can either be installed to free end bracket or installed separately according its application environment.



Chain Type	Ordering No.	C Frame	Hole Type
nsb 028N	S-TWEB028.35 S-TWEB028.50 S-TWEB028.55 S-TWEB028.75 S-TWEB028.100 S-TWEB028.125 S-TWEB028.150 S-TWEB028.200	35 50 55 75 100 125 150	M6 Bolt Holes



Chain Type	Ordering No.	Α	В	С	
nsb 028N	S-TW036/025CR.35 S-TW036/025CR.50 S-TW036/025CR.55 S-TW036/025CR.75 S-TW036/025CR.100 S-TW036/025CR.125	46 69 70 94 118 142	35.4 48.9 48.9 48.9 48.9 48.9	15 20 40 65 90	



(Dimensions in mm)