

Plarailchain SP

Cable/Tube Carrier With Low Abrasion, Low Noise, Snap Open Flap Type

Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

*Two types of brackets are required, each for a fixed and a movable end. For details, see page 810.



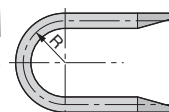
(1) Low Abrasion, Low Noise, Snap Open Flap type Plarailchain

(2) Size (Overall dimensions: H × W)

Code	1520	2035	2550	2560	2585	3580	35105		
Size (mm)	15×20	20×35	25×50	25×60	25×85	35×80	35×105		
Code	4542	4575	45100	45115	45125	45150	45175	45200	45250
Size (mm)	45×42	45×75	45×100	45×115	45×125	45×150	45×175	45×200	45×250
Code	5575	55100	55125	55150	55175	55200	55250	55300	
Size (mm)	55×75	55×100	55×125	55×150	55×175	55×200	55×250	55×300	
Code	8075	80100	80125	80150	80175	80200	80250	80300	
Size (mm)	80×75	80×100	80×125	80×150	80×175	80×200	80×250	80×300	

(3) Bending radius (R) (○: Available)

Code	R30	R45	R50	R60	R75	R100	R125	R135	R150	R175	R200	R250	R300	R350	R400
1520	○		○		○										
2035		○													
2550			○		○	○			○						
2560			○		○	○			○						
2585				○	○	○			○						
35□						○	○		○	○	○				
45□					○	○	○		○	○	○	○			
55□								○	○		○	○			
80□									○		○	○	○	○	○



(4) Specifications (1520, 2035, 2550, 2560, 2585)

Code	No code	EG
Specifications	Standard	Anti-static (Volume resistance: 10^5 to $10^6 \Omega \cdot m$)

Model Designatgion for Divider (Example)



(1) Divider for Plarailchain

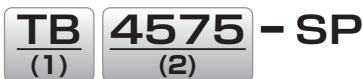
(2) Applicable models

Code	20	25	35	45	55	80
Applicable models	SP2035	SP25□	SP35□	SP45□	SP55□	SP80□

(3) Specifications (SB20, 25)

Code	No code	EG
Specifications	Standard	Anti-static

Model Designation for Shelf (Example)



(1) Shelf for Plarailchain

(2) Applicable models

Code	4542	4575	45100	45115	80146
Applicable models	SP4542	SP4575	SP45100	SP45115	SP80175 or more

*Shelf divider is required to use TB80146.

Model Designation for Shelf divider (Example)



(1) Shelf divider for Plarailchain

Model designation for flap (Example)



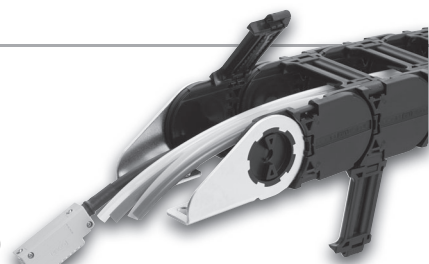
(1) Plarailchain SP

(2) Model

Code	1520	2035	2550	2560	2585	3580	35105		
Applicable models	SP1520	SP2035	SP2550	SP2560	SP2585	SP3580	SP35105		
Code	4542	4575	45100	45115	45125	45150	45175	45200	45250
Applicable models	SP4542	SP4575	SP45100	SP45115	SP45125	SP45150	SP45175	SP45200	SP45250
Code	55(80)75	55(80)100	55(80)125	55(80)150	55(80)175	55(80)200	55(80)250	55(80)300	
Applicable models	SP5575, SP8075	SP55100, SP80100	SP55125, SP80125	SP55150, SP80150	SP55175, SP80175	SP55200, SP80200	SP55250, SP80250	SP55300, SP80300	

Characteristics

- Reduces abrasive wear on cable/tube.
- Excellent in durability.
- Special resin contribute to the low noise.
- There is only one type of bracket for both the moving and the fixed end. (except 55, 80 series)
- As for SP45□·55□·80□ type, snap open flap along the inner radius.
- Anti-static type, is provided where static electricity should be dissipated. (SP1520, 2035, 25□)



Specifications

Series	1520(EG)	2035(EG)	2550(EG)	2560(EG)	2585(EG)	3580	35105	4542	4575	45100	45115	45125	45150	45175	45200	45250		
Bending radius (mm)	30	45	50	50	60	100							75					
	50		75	75	125												100	
	75		100	100	150													
	150		150	150	175													
					200													175
					250													200
	Max. O.D. of cable/tube (mm)		12	16	20													28
Pitch length (mm)	25	32	36	36	43.5	62.5		67										
No. of links (/m)	40	32	28	28	23	16		15										
Max. free span(m)*1	1.25	1.25	1.63	1.75	1.88	2.25	2.38	2.13										
Max. travel stroke (m)	2.4	2.4	3.1	3.3	3.6	4.4	4.6	4.2										
Max. contents weight (kg/m)	2.2	2.3	6.5	6.5	8	10	13	32										
Max. travel speed (m/s)	3																	
Chain weight (kg/m)	0.36 (0.35)	0.5 (0.48)	0.86 (0.83)	0.85 (0.82)	1.05 (1.01)	1.76	1.96	2.3	2.4	2.6	2.7	2.8	3	3.1	3.2	3.5		
Chain material	PA6 GF30%(PA6 GF15% CF7%)					PA6 GF30%		PA6 GF30%										
Bracket material	SPCC with Trivalent unichrome plating																	
Divider material	—	PA6 GF30% (PA6 GF15% CF7%)				PA6 GF30%		PA6 GF30%										
Shelf material	—							PA6				—	—	—	—	—		
Operating temp. range (°C)	-10 to 80																	
Operating environment	Avoid using in acid/alkaline atmosphere or in hot water.																	

Series	5575	55100	55125	55150	55175	55200	55250	55300	8075	80100	80125	80150	80175	80200	80250	80300	
Bending radius (mm)	135								150								
	150								200								
	200								250								
	250								300								
									350								
									400								
Max. O.D. of cable/tube (mm)	44								60	64							
Pitch length (mm)	91								100								
No. of links (/m)	11								10								
Max. free span(m)*1	5								5								
Max. travel stroke (m)	9.8								9.8								
Max. contents weight (kg/m)	65								70								
Max. travel speed (m/s)	3																
Chain weight (kg/m)	3.5	3.6	3.7	3.8	3.9	4	4.1	4.2	4.7	4.8	4.9	5.1	5.2	5.3	5.6	5.8	
Chain material	PA6 GF30%																
Bracket material	SPCC with Trivalent unichrome plating																
Divider material	PA6 GF30%																
Shelf material	—								—	—	—	—	PA6				
Operating temp. range (°C)	-10 to 80																
Operating environment	Avoid using in acid/alkaline atmosphere or in hot water.																

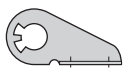
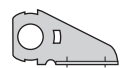
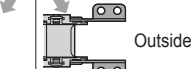
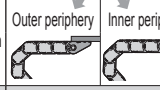
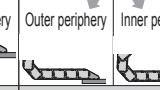
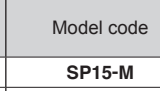
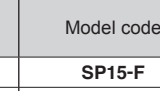
*1. Max. free span: Length that the upper runs in straight line with no sag.

*2. Series with (EG) is available in Anti-static grade.

*3. Weights and material in () are for Anti-static type.

Plarailchain SP

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code	Mounting bracket for SP series					
		Application	For moving-end		For fixed-end		
Low Abrasion, Low Noise, Snap Open Flap Type SP	SP1520- ^[3] ^[4]	Type					
	SP2035-R45 ^[4]						
	SP2550- ^[3] ^[4]	Screwing position					
	SP2560- ^[3] ^[4]						
	SP2585- ^[3] ^[4]						
	SP3580- ^[3]						
	SP4542- ^[3]	Orientation					
	SP4575- ^[3]						
	SP45100- ^[3]	Type					
	SP45115- ^[3]						
	SP45125- ^[3]	SP1520	SP15-M	SP15-M	SP15-F	SP15-F	
	SP45150- ^[3]	SP2035	SP20-M	SP20-M	SP20-F	SP20-F	
	SP45175- ^[3]	SP25□	SP25-M	SP25-M	SP25-F	SP25-F	
	SP45200- ^[3]	SP35□	SP35-M	SP35-M	SP35-F	SP35-F	
	SP45250- ^[3]	SP4542	SP45-MK	SP45-MK	SP45-FK	SP45-FK	
	SP5575- ^[3]	SP45□	SP45-M	SP45-M	SP45-F	SP45-F	
	SP55100- ^[3]	SP55□	SP55-A	SP55-B	SP55-A	SP55-B	
	SP55125- ^[3]	SP80□	SP80-A	SP80-B	SP80-A	SP80-B	
	SP55150- ^[3]	Notes *1. For ^[3] in model code, please select a code for bending radius from the Model designation (example) on page 808. *2. See page 792 for size selection instructions. *3. See page 797 for the calculation method of the number of links. *4. Two types of brackets are required, each for a fixed-end and a moving-end. Select best-suited bracket for your application from above selection. Moving-end (the hole type) and fixed-end (the pivot type) must be ordered separately when you need both of them. *5. Fixed-end brackets for SP15, SP20, SP25, SP35 are enclosed with End cap (Resin made). As for the handling, please refer to digital catalog on our website or handling manual. Be careful not to damage the item when opening the package or handling. *6. Brackets for SP55, SP80 have different shape from above drawing. Two sets are required for the moving end and the fixed end. CAD data is available at PISCO website.					
	SP55175- ^[3]						
	SP55200- ^[3]						
	SP55250- ^[3]						
	SP55300- ^[3]						
	SP8075- ^[3]						
	SP80100- ^[3]						
	SP80125- ^[3]						
	SP80150- ^[3]						
	SP80175- ^[3]						
	SP80200- ^[3]						
	SP80250- ^[3]						
	SP80300- ^[3]						

Divider for SP series			Flap for SP series		End-cap for SP1520, 2035, 25□, 35□				
SB20		Model code	Attachable Model	SP Flap		SP EC		Model code	Attachable Model
SB25				SP1520 Flap		SP1520		SP15EC	SP1520
SB35				SP2035 Flap		SP2035		SP20EC	SP2035
SB45				SP2550 Flap		SP2550		SP25EC	SP25□
SB55		Model code	Attachable Model	SP1520 Flap	SP1520	SP35EC	SP35□		
				SP2035 Flap	SP2035				
				SP2550 Flap	SP2550				
				SP2560 Flap	SP2560				
SB80		Model code	Attachable Model	SP2585 Flap	SP2585	R-cap for SP1520, 2035, 25□, 35□			
				SP3580 Flap	SP3580	SP1520RC-③	SP1520		
				SP35105 Flap	SP35105	SP2035RC-③	SP2035		
				SP4542 Flap	SP4542	SP2550RC-③	SP2550		
Shelf for SP55□, 80□				SP4542 Flap	SP4542	SP2560RC-③	SP2560		
				SP4575 Flap	SP4575	SP2585RC-③	SP2585		
				SP45100 Flap	SP45100	SP3580RC-③	SP3580		
				SP45115 Flap	SP45115	SP35105RC-③	SP35105		
TB45		Model code	Attachable Model	SP45115 Flap	SP45115	R-piece for SP45□			
TB4542-SP		SP4542	SP45125 Flap	SP45125	SP45R-piece	Model code	Attachable Model		
TB4575-SP		SP4575	SP45150 Flap	SP45150		SP45R-piece-③	SP45□		
TB45100-SP		SP45100	SP45175 Flap	SP45175					
TB80146		TB45115-SP	SP45115	SP45200 Flap	SP45200				
TB80146-SP		SP80175 or more	SP45250 Flap	SP45250					
Shelf divider for SP80□				SP55(80)75 Flap	SP5575, 8075				
				SP55(80)100 Flap	SP55100, 80100				
TS80		Model code	Attachable Model	SP55(80)125 Flap	SP55125, 80125	Joint Cap for SP55□, 80□			
		TS80-SP	SP80175 or more	SP55(80)150 Flap	SP55150, 80150		Model code	Attachable Model	
				SP55(80)175 Flap	SP55175, 80175		SP55 Joint Cap	SP55□	
				SP55(80)200 Flap	SP55200, 80200		SP80 Joint Cap	SP80□	
				SP55(80)250 Flap	SP55250, 80250				
				SP55(80)300 Flap	SP55300, 80300				



Notes

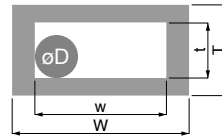
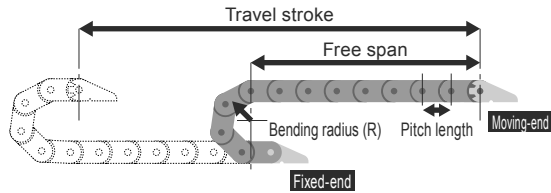
*For ③ in model code, please select a code for bending radius.

Notes
*For ^[3] in model code, please select a code for bending radius.

■ Chemical-proof Properties

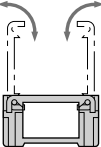
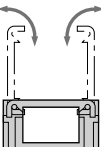
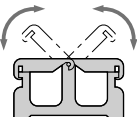
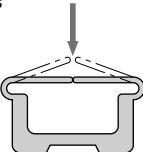
Category	Chemical Name	Evaluation	Category	Chemical Name	Evaluation
Hydrocarbons	Benzene	◎	Esters	Acetate ester	◎
	Toluene	◎	Alkali, Inorganic salts	Sodium hydroxide (50%)	○
	Xylene	◎		Caustic potash (50%)	○
	Paraffin	◎		Ammonia solution (50%)	○
Halogenated hydrocarbons	Chloroform	○		Table salt (saturation)	◎
	Carbon tetrachloride	◎		Sodium carbonate (10%)	◎
	Trichloroethane	◎		Soap solution	◎
Oils	Gasoline	◎	Phenols	Phenol	×
	Mineral oil	◎		Resorcinol	×
	Motor oil	◎	Organic acids	Formic acid (10%)	×
	Silicone oil	◎		Acetic acid (10%)	×
Ethers	Ethyl ether	◎		Citric acid	○
	Petroleum ether	◎	Inorganic acids	Hydrochloric acid (10%)	×
Alcohols	Methyl alcohol	○		Sulfuric acid (10%)	×
	Ethyl alcohol	○		Nitric acid (10%)	×
	IPA	○		Chromic acid (10%)	×
	Butyl alcohol	◎	Metal chlorides	Zinc chloride	×
	Ethylene glycol	◎		Barium chloride	◎
Ketone, Aldehydes	Acetone	◎		Calcium chloride	×
	Methyl ethyl ketone	◎	Room-temperature test		
	Formaldehyde	○	Evaluation ◎ : Not affected; ○ : Somewhat affected; × : Affected		

Selection chart for Plarailchain series



T : Height
W : Width
t : Inner height
w : Inner width
øD: Max. O.D. of cable/tube

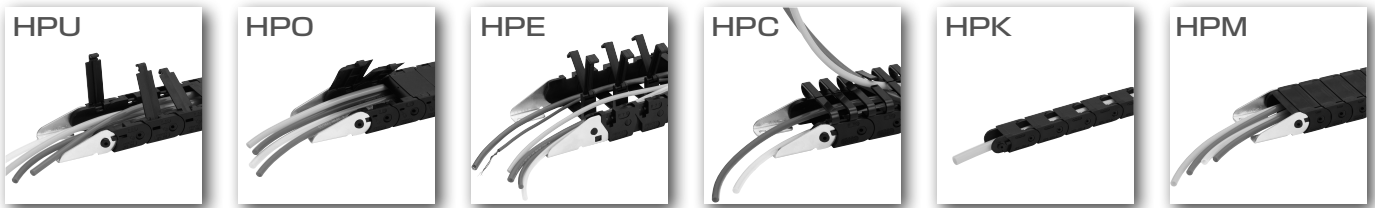
Open-close flap type

Open-close flap type		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Open/close system								
HPU	102	19	20	50	0.46	0.7	1.5	2.5	0.12	—	Snap open on either side (along the outer radius). 								
	202	25, 30, 45	25	40	0.75	1.4	1.2		0.25	—									
	203	30, 45							0.26	—									
	204	38, 50	32	32	1	1.9	2		0.5	—									
	206								0.56	—									
	306	50, 100, 150	45	23	1.5	2.9	6		0.64	—									
	408	50, 75, 100,150, 200							1.1	●									
	412								1.3	●									
	615	75, 100, 150, 200							70	15			3	5.8	25	2.46	●		
HPO Fully-enclosed type	202	30, 45	20	50	0.75	1.4	1.9	2.5	0.28	—	Snap open on either side (along the outer radius). 								
	203								0.31	—									
	204	38, 50	26	39			2.5		0.5	—									
	206								0.6	—									
	408	70, 100,150, 200	45	23	1.75	3.4	10		1.36	●									
	412								1.7	●									
	512	100	60	17	4.5	8.8	30.6		2.15	●									
	819	150, 200, 250, 300, 400	90	11	2.5	4.6	35		4.4	●									
	HPE Open-close split flap type	408	50, 75, 100,150, 200	45	23	1.5	2.9		2.5	2.5			1.1	—	Twin gull-wing crossbars operate independently. 				
412		1.3						—											
HPC Simple flap type Low noise	203	30, 45, 60	25	40	0.9	1.7	2.5	2.5	0.37	—	Cut apart crossbars by a cutter (at the spot indicated by the arrow) so that cables / tubings can be easily installed. 								
	204	50, 90, 150	32	32	1	1.8	4		0.59	—									
	306	50, 100, 150	45	23					0.78	—									
	50	60	25	40	1.06	1.9	5		0.358	—									
	100	90							0.608	—									
	200	105							1.056	—									

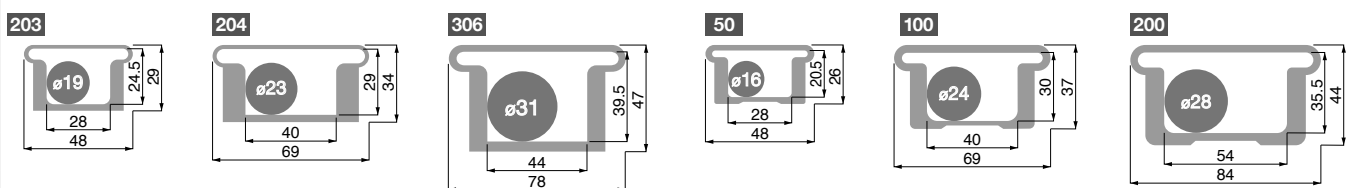
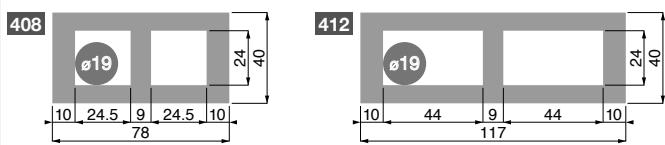
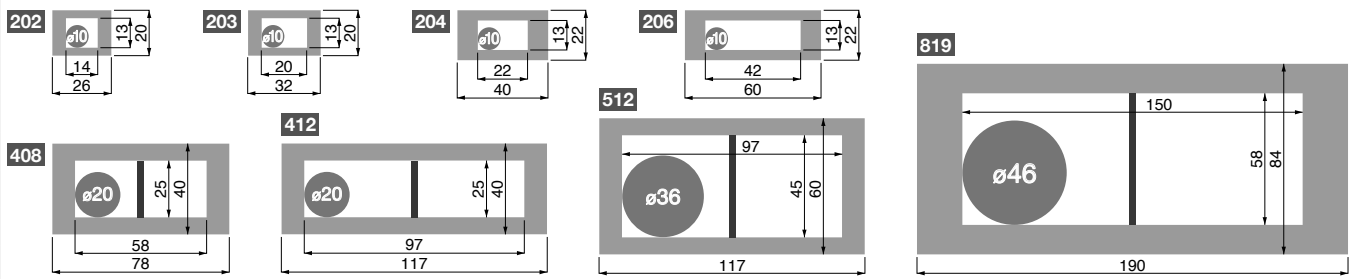
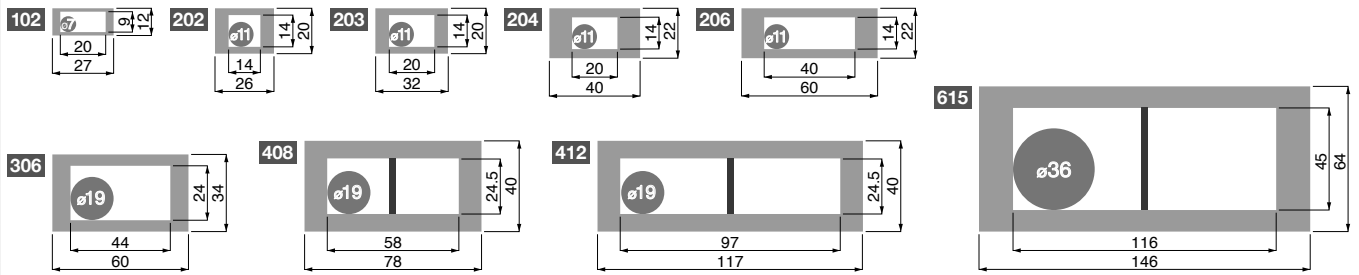
Fixed flap type

Fixed flap type		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*1	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Open/close system	
HPK Compact	101	19	20	50	0.5	0.8	1.5	1	0.105	—	No flap	
	202	30, 45	25	40	0.75	1.4	3		0.222	—		
	203								0.24	—		
	204	38, 50	32	32	0.75	1.4	4	2.5	0.45	—		
	206				0.86	1.6	4.5		0.51	—		
HPM Fully-enclosed type	204	28	15	67	1	1.8	3	2.5	0.34	—	No flap	
	205								0.39	—		
	206	38, 50	22	46			4.5		0.46	—		

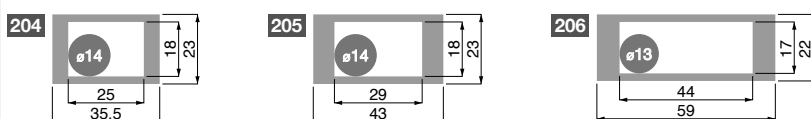
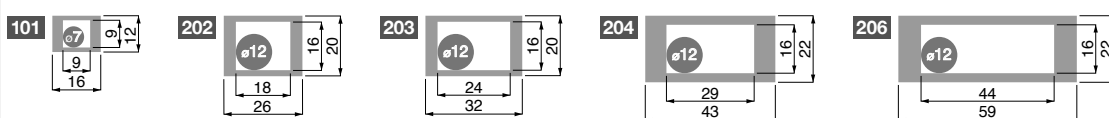
*Max. free span is the maximum length that the upper runs in straight line with no sag.



Size (Max. O.D. of cable/tube) (mm)

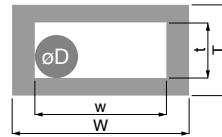
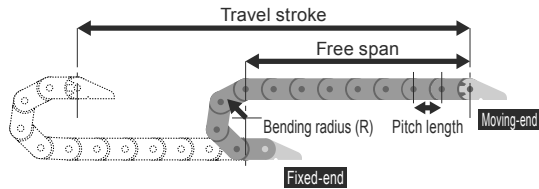


Size (Max. O.D. of cable/tube) (mm)



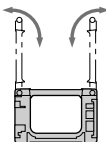
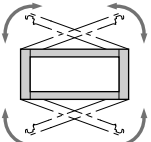
* ——— Highlighted line indicates approximate positions where a divider can be installed.

Selection chart for Plarailchain series



T : Height
W : Width
t : Inner height
w : Inner width
øD: Max. O.D. of cable/tube

Low Abrasion, Low Noise, Open-Close Flap Type.

SP	SPO Fully-enclosed type	Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m) ¹	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Rack	Open/close system	
1520 ²	—	30, 50, 75	25	40	1.25	2.4	2.2	3	0.36(0.35)	—	—	Snap open on either side (along the outer radius). 	
2035 ²	—	45	32	32	1.25	2.4	2.3		0.5(0.48)	●	—		
2550 ²	—	50, 75, 100, 150	36	28	1.63	3.1	6.5		0.86(0.83)	●	—		
2560 ²	—				1.75	3.3			0.85(0.82)	●	—		
2585 ²	—	60, 75, 100, 150	43.5	23	1.88	3.6	8		1.05(1.01)	●	—		
3580	—	100, 125, 150, 175, 200	62.5	16	2.25	4.4	10		1.76	●	—		
35105	—				2.38	4.6	13		1.96	●	—		
4542	—	75, 100, 125, 150, 175, 200, 250 (75 and 100 are not available for SPO.)	67	15	2.13	4.2	32	3	2.3	●	●	Snap open on either side along both the inner radius and the outer radius. 	
4575	4575								2.4[3]	●	●		
45100	45100								2.6[3.3]	●	●		
45115	—								2.7	●	●		
45125	45125								2.8[3.6]	●	—		
45150	45150								3.0[3.9]	●	—		
45175	—								3.1	●	—		
45200	—								3.2	●	—		
45250	—								3.5	●	—		
5575	5575	135, 150, 200, 250 (135 is not available for SPO.)	91	11	5	9.8	65	3	3.5[3.9]	●	—		
55100	55100								3.6[4]	●	—		
55125	55125								3.7[4.1]	●	—		
55150	55150								3.8[4.2]	●	—		
55175	—								3.9	●	—		
55200	—								4.0	●	—		
55250	—								4.1	●	—		
55300	—								4.2	●	—		
8075	—	150, 200, 250, 300, 350, 400	100	10	5	9.8	70	3	4.7	●	—		
80100	—								4.8	●	—		
80125	—								4.9	●	—		
80150	—								5.1	●	—		
80175	—								5.2	●	●		
80200	—								5.3	●	●		
80250	—								5.6	●	●		
80300	—								5.8	●	●		

		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m) ¹	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Open/close system	
SD High resistance, Low abrasion.	2550	50, 70, 100	25	40	2.2	4.3	7	4	0.9	●	Snap open on either side along both the inner radius and the outer radius.	
	2560								0.95	●		
	2580								1.07	●		

*1. Max. free span is the maximum length that the upper runs in straight line with no sag.

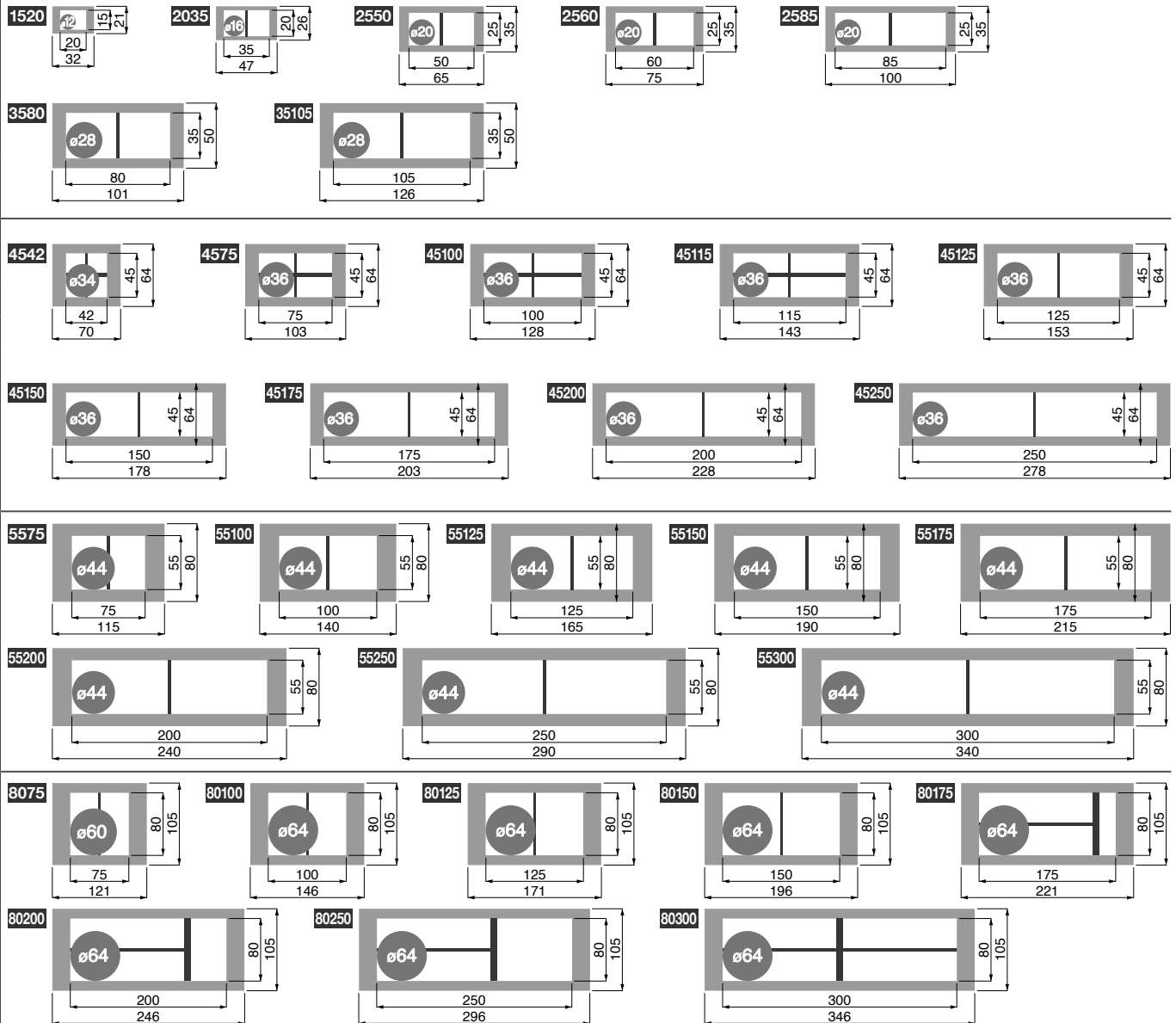
*2. Models available in Anti-static type.

*3. Weights in () are for Anti-static type.

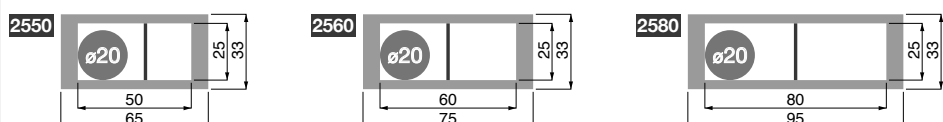
*4. Weights in [] are for SPO.



Size (Max. O.D. of cable/tube) (mm)

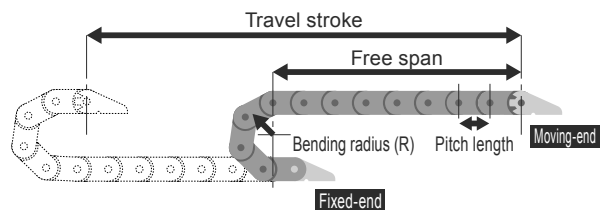


Size (Max. O.D. of cable/tube) (mm)

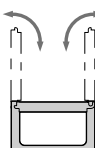


— indicates approximate positions where a divider and a rack can be installed.
SP80□ requires a shelf divider to install a shelf.

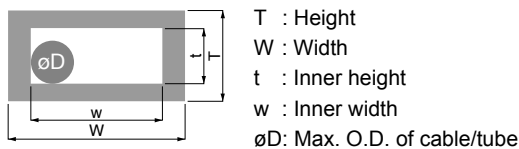
Selection chart for Plarailchain series



Open-Close Flap,
Hinge Connection Type

Open-Close Flap, Hinge Connection Type		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Rack	Open/close system
SC Low noise, Low dust	1520	28, 34	18	56	1.1	2.15	1	4	0.34	—	—	Flap only opens on one side (either side) 
	2040	31, 38, 58	20	50	1.4	2.75			0.7	●	—	
	2540	60, 85	30	33	1.5	2.9	0.77		●	●		
	2560	60					0.94		●	●		
	2580	60, 85					1.2		●	●		
	3560	75, 100	45	23	2	3.9	6		1.4	●	●	
	35100	75, 100, 115			1.8	3.5			2	●	●	
SCL Low noise, Low dust Space-saving type	2020	36	20	50	1.4	2.75	1	4	0.39	—	—	
	2050	31							0.58	●	—	
	2570	46, 64	30	33	1.5	2.9	3		0.96	●	●	
	3050	46			1.6	3.13			1.2	●	●	

*Max. free span is the maximum length that the upper runs in straight line with no sag.



Size (Max. O.D. of cable/tube) (mm)

SC

Low noise,
Low dust

1520

2040

2540

2560

2580

3560

35100

SCL

Low noise,
Low dust

Space-saving type

2020

2050

2570

3050

Plarailchain Number of Links Calculation

Number of links calculation

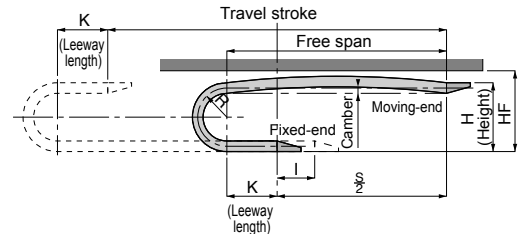
Number of links is to be calculated by the following formula.

$$n = \frac{\frac{S}{2} + a + I}{P}$$

n: Number of links (Round up after the decimal point)
S: Travel stroke
a: $\pi R + 2K$ (R: Bending radius (mm), K: Leeway (mm))
I: Distance from mid point (mm) when the fixed-end is not in the middle of travel stroke. (When the travel stroke is in the mid point: 0).
P: Pitch length (mm)

(Note)

Placing the fixed-end in the center point of travel stroke minimizes the number of Plarailchains required.



*1. "HF" in the drawing above shows the installation height (clearance height) taking into account the camber (curve of upper run with no cables / hoses being accommodated)

*2. Please make inquiries for special travel conditions.

	Series	R	P	H	HF	K	a			
HPU	102	19	20	50	65	20	99.7			
	202	25	25	70	85	25	128.5			
		30		80	95		144.2			
		45		110	125		191.3			
	203	30	25	80	95	25	144.2			
		45		110	125		191.3			
	204,206	38	32	98	118	30	179.3			
		50		122	142		217.0			
	306	50	45	134	160	50	257.0			
		100		234	260		414.0			
		150		334	360		571.0			
	408,412	50	45	140	170	50	257.0			
75		190		220	335.5					
100		240		270	414.0					
150		340		370	571.0					
615	200	70	440	470	70	728.0				
	75		214	275		375.5				
	100		264	325		454.0				
	150		364	425		611.0				
HPO	202,203	30	20	80	95	25	144.2			
		45		110	125		191.3			
	204,206	38	26	98	118	30	179.3			
		50		122	142		217.0			
	408,412	70	45	180	210	50	319.8			
		100		240	270		414.0			
		150		340	370		571.0			
		200		440	470		728.0			
	512	100	60	260	320	60	434.0			
		150		384	445		651.0			
		200		484	545		808.0			
		250		584	645		965.0			
819	300	90	684	745	90	1,122.0				
	400		884	945		1,436.0				
	HPE		408,412	50		45	140	180	50	257.0
				75			190	230		335.5
100		240		280	414.0					
150		340		380	571.0					
200		440		480	728.0					
HPK	101	19	20	50	62	25	109.7			
	202,203	30	25	80	95	25	144.2			
		45		110	125		191.3			
HPM	204,206	38	32	98	118	30	179.3			
		50		122	142		217.0			
	204,205	28	15	79	100	15	117.9			
HPC	206	30	22	80	95	25	144.2			
		45		110	125		191.3			
	HPC	203	30	25	98	120	25	144.2		
45			128		150	191.3				
60			158		180	238.4				
204		50	32	146	165	30	271.0			
		90		226	245		342.6			
		150		346	365		531.0			
306		50	45	160	177	50	257.0			
		100		260	277		414.0			
50		150		360	377		571.0			
100		60	25	152	206	90	368.4			
200	90	25	227	257	90	462.6				
	105	25	260	295	90	509.7				

Series		R	P	H	HF	K	a			
SP	1520	30	25	81	100	30	154.2			
		50		121	140		217.0			
		75		171	190		295.5			
	2035	45	32	116	140	35	211.3			
	2550, 2560	50	36	135	160	50	257.0			
		75		185	210		335.5			
		100		235	260		414.0			
		150		335	360		571.0			
	2585	60	43.5	155	180	50	288.4			
		75		185	210		335.5			
		100		235	260		414.0			
		150		335	360		571.0			
	35 □	100	62.5	250	280	63	440.0			
		125		300	330		518.5			
		150		350	380		597.0			
		175		400	430		675.5			
	45 □	200	67	450	480	70	754.0			
		75		214	275		375.5			
		100		264	325		454.0			
		125		314	375		532.5			
		150		364	425		597.0			
		175		414	475		689.5			
		200		464	525		754.0			
		250		564	625		925.0			
55 □		135		91	350		400	100	623.9	
		150			380		430		671.0	
		200			480		530		828.0	
		250			580		630		985.0	
80 □	150	100	406	495	106	683.0				
	200		506	595		840.0				
	250		606	695		997.0				
	300		706	795		1,154.0				
	350		806	895		1,311.0				
	400		906	995		1,468.0				
SPO	45 □	125	67	314	375	70	532.5			
		150		364	425		597.0			
		175		414	475		689.5			
		200		464	525		754.0			
	250	564	625	925.0						
	55 □	150	91	380	430	100	671.0			
200		480		530	828.0					
250		580		630	985.0					
SD	25 □	50	25	133	150	28	213.0			
		70		173	190		275.8			
		100		233	250		370.0			
SC	1520	28[26.3] 34[31.3]	18	95 105	115 125	23	128.6 144.3			
	L2020	36[34]	20	120	150	25	156.8			
	2040	31[28.8] 38[36.3] 58[56.3]	20	115 130 170	145 160 200	30	150.4 174.0 236.8			
		L2050		31[29]	20		110	140	25	141.1
		2540		60[57.8] 85[82.8]	30		185 235	215 265	35	251.5 330.0
	2560	60[57.8]	30	185	215	35	251.5			
	L2570	46[44] 64[61.3]	30	150 185	180 215	35	208.2 262.5			
		2580		60[57.8] 85[82.8]	30		185 235	215 265	35	251.5 330.0
	L3050	46[44]	30	160	190	35	208.2			
	3560, 35100	75[71.3] 100[98.8]	45	240 295	270 325	50	323.9 410.2			
		35100		115[113.8]	45		325	355	50	457.3

*As for SC Series, "R" value used for the calculation is inside [], which is different from "R" indication in the model code.



You might find this helpful

The auto-calculator to help figure out the number of links is available on our website.