

Free Flow Chains and Other Conveyor Chains

Name	Free Flow Chains		Other Conveyor Chains
	Top Roller Chain	Side Roller Chain	Hollow Pin Chain (HP)
			
Features	Loads can be directly placed on the top rollers. By attaching a stopper on the conveyor, loads can be temporarily stopped or stored while continuously driving the chain.	This chain is used for a free flow conveyor that runs on rails, and the side rollers carry the weight of loads. Compared with Top Roller Chain of the same material, it can carry heavier load.	The chain is connected with hollow pins that can be used for fitting various attachments.

■ DID Free Flow Chains and Other Conveyor Chains

	Top Roller Chain				Side Roller Chain			Hollow Pin Chain (HP)	Flexible Chain (FX)	Flat Plate Type Chain (F)
	Simplex		Duplex		Meandering prevention (SG)	With breaks (SRB)				
	Every two links (2P-TR)	Every link (1P-TR)	Overtum prevention (TG)	With breaks (TRB)			Every two links (2P-TR)			
DID 35	—	—	—	—	—	—	—	—	—	○
DID 40	I※2	Ⓢ※3	IO※2	○	OI※2	Ⓢ※3	○※1	—	○	○
DID 50	I	Ⓢ	IO	—	OI	Ⓢ	○	—	○	○
DID 60	I	Ⓢ	IO	—	OI	Ⓢ	○	—	○	○
DID 80	I	Ⓢ	IO	—	OI	Ⓢ	—	—	○	○
DID 100	I	Ⓢ	IO	—	OI	Ⓢ	—	—	○	○
DID 120	—	—	—	—	—	—	—	—	—	○
DID C2040	OI	○	I	—	—	○	○	—	○	○
DID C2050	OI	○	I	—	—	○	○	—	○	○
DID C2060H	OI	○	I	—	—	○	○	—	○	○
DID C2080H	OI	○	I	—	—	○	○	—	○	○
DID C2100H	OI	○	I	—	—	○	○	—	○	○
DID C2042	OI	○	I	—	—	○	—	—	○	○
DID C2052	OI	○	I	—	—	○	—	Ⓛ※3	○	○
DID C2062H	OI	○	I	—	—	○	—	Ⓛ	○	○
DID C2082H	OI	○	I	—	—	○	—	Ⓛ	○	○
DID C2102H	OI	○	I	—	—	○	—	Ⓛ	○	○

Note: ※ 1. Standard chains are available for those indicated with ○.

※ 2. I: Top rollers are attached to inner links.

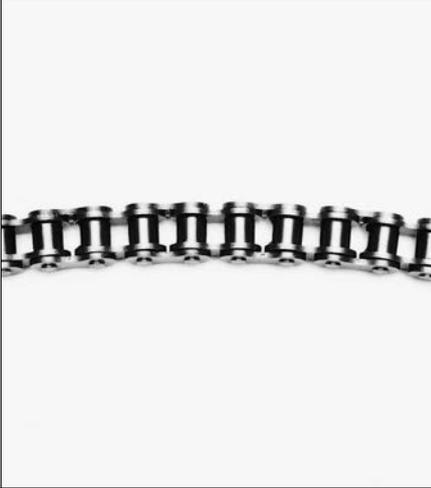
O: Top rollers are attached to outer links.

IO: Top rollers are attached to the inner links unless specified.

OI: Top rollers are attached to the outer links unless specified.

※ 3. S: Top roller diameter is smaller compared with other chains of the same sizes.

L: Top roller diameter is larger compared with other chains of the same sizes.

Other Conveyor Chains		
	Flexible Chain (FX)	Flat Plate Type Roller Chain (F)
		
	This chain has much sideward bending flexibility and is suitable for curved traveling.	Damage to chain guards and other parts are reduced with the use of oval-shaped flat plates, and loads can be set directly on the chain.

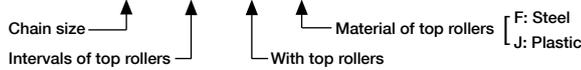
Small Conveyor Chains
Others

Small Conveyor Chains Single Pitch Top Roller Chain

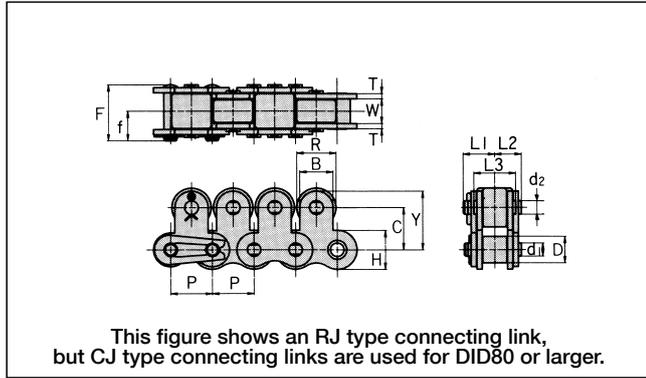
• Every-link Top Roller Chain

[Type indication]

DID 50 1P-TR-J



(The diameter of top rollers is smaller than that of every-two-link top rollers)



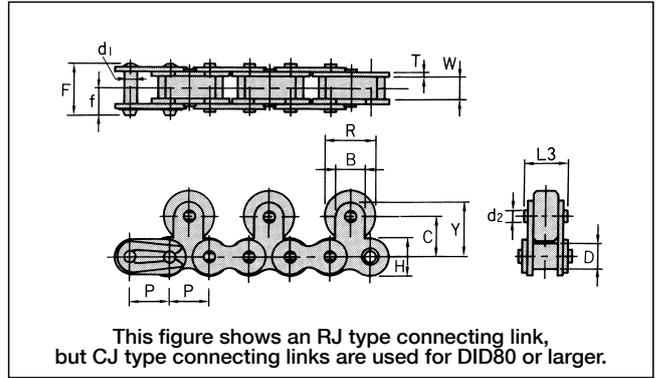
• Every-two-link Top Roller Chain

[Type indication]

DID 50 2P-TR-F



(A chain with top rollers attached to outer links is not available as standard.)



Dimensions of chain

Unit (mm)

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Pin			Plate		Avg. tensile strength		Max. allowable load	
				d ₁	F	f	T	H	kN	kgf	kN	kgf
DID 40 TR	12.70	7.95	7.92	3.97	17.6	9.5	1.5	12.0	18.6	1,900	2.64	270
DID 50 TR	15.875	9.53	10.16	5.09	21.9	11.6	2.0	15.0	28.4	2,900	4.41	450
DID 60 TR	19.05	12.00	11.91	5.96	26.9	14.3	2.4	18.1	44.1	4,500	6.37	650
DID 80 TR	25.40	15.88	15.88	7.94	35.4	19.0	3.2	24.0	78.4	8,000	10.7	1,100
DID100 TR	31.75	19.05	19.05	9.54	42.5	22.7	4.0	29.9	118	12,100	17.1	1,750

Dimensions of top roller

Chain No.	Every-2-link top roller								Every-link top roller									
	R	C	Y	B	d ₂	L ₃	Approx. weight (kg/m)		R	C	Y	B	d ₂	L ₁	L ₂	L ₃	Approx. weight (kg/m)	
							Iron	Resin									Iron	Plastic
DID 40 2P-TR	15.88	12.7	17.45	9.5	3.97	13.2	1.21	0.85	11.0	12.7	17.45	9.5	3.97	10.1	8.0	13.2	1.90	1.04
DID 50 2P-TR	19.05	16.2	22.55	12.7	5.24	16.2	1.86	1.41	15.0	16.2	22.55	12.7	5.24	12.1	10.0	16.2	2.49	1.77
DID 60 2P-TR	22.23	18.3	26.25	15.9	5.96	20.4	2.82	2.07	18.0	18.3	26.25	15.9	5.96	15.1	12.8	20.4	3.81	2.60
DID 80 2P-TR	28.58	24.6	34.15	19.1	7.94	26.1	4.79	3.62	24.0	24.6	34.15	19.1	7.94	19.0	16.4	25.7	6.62	4.68
DID100 2P-TR	39.69	31.8	44.5	25.4	9.54	31.0	7.63	5.43	30.0	31.8	44.50	25.4	9.54	22.8	19.7	31.0	9.76	6.82

Note: 1. Approx. weight indicates the value for every-two-link top roller chains.(for inner link)

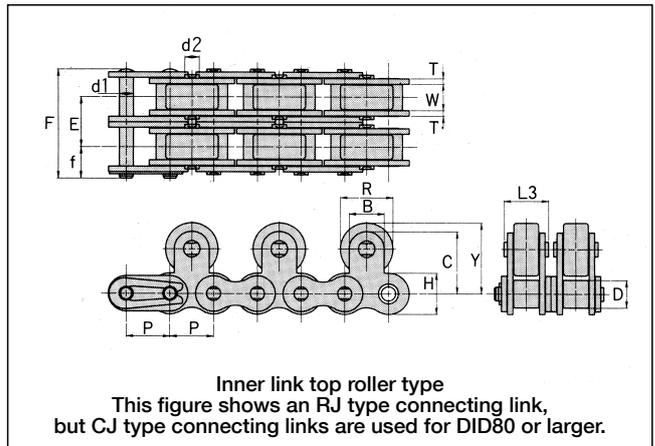
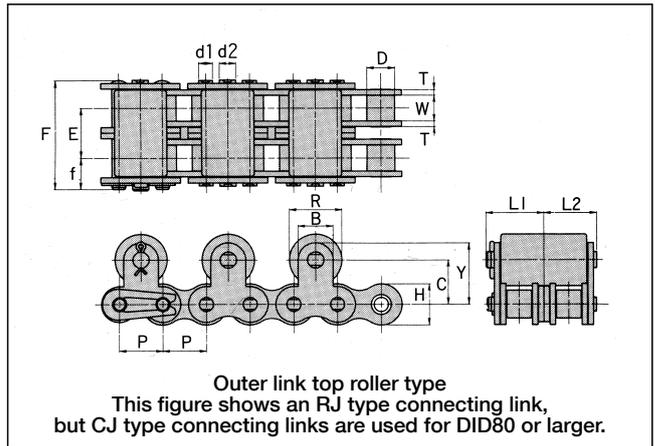
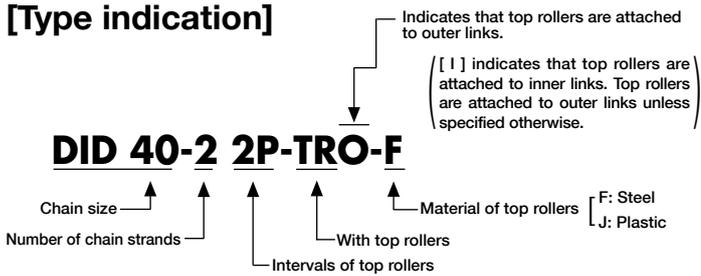
2. The material of resin top roller is polyacetal.

Top roller chain series (Single pitch)

Standard	Nickel Plated	Double Guard	X,O-ring	X,O-ring (Nickel Plated)	Sintered	Sintered (Nickel Plated)
DID 40 TR	DID 40N TR	DID 40WG TR	DID 40LX TR	DID 40LXN TR	DID C40UR TR	DID C40URN TR
DID 50 TR	DID 50N TR	DID 50WG TR	DID 50LX TR	DID 50LXN TR	DID C50UR TR	DID C50URN TR
DID 60 TR	DID 60N TR	DID 60WG TR	DID 60LX TR	DID 60LXN TR	DID C60UR TR	DID C60URN TR
DID 80 TR	DID 80N TR	DID 80WG TR	DID 80LD TR	DID 80LDN TR	DID C80UR TR	DID C80URN TR
DID100 TR	DID100N TR	DID100WG TR	DID100LD TR	DID100LDN TR		

• Duplex Every-two-link Top Roller Chain

[Type indication]



1. Standard inner link top roller type uses two separate rollers as illustrated, but a single roller type is also available.
2. Duplex every-link top roller type is also available. In this case, dimension R changes. See the section of Every-link Top Roller Chain (P192)
3. The connecting links for DID80-2 ~ DID100-2 are cotter types (CJ type connecting links). The dimensions of pins are the same as those shown in the table of dimensions.

Dimensions of chain

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Transverse pitch E	Pin			Plate	
					d₁	F	f	T	H
DID 40-2 2P-TR-F	12.70	7.95	7.92	14.4	3.97	32.1	9.5	1.5	12.0
DID 50-2 2P-TR-F	15.875	9.53	10.16	18.1	5.09	40.1	11.6	2.0	15.0
DID 60-2 2P-TR-F	19.05	12.7	11.91	22.8	5.96	49.8	14.3	2.4	18.1
DID 80-2 2P-TR-F	25.40	15.88	15.88	29.3	7.94	64.7	19.0	3.2	24.1
DID100-2 2P-TR-F	31.75	19.05	19.05	35.8	9.54	78.7	22.8	4.0	29.9

Unit (mm)

Dimensions of top roller

Chain No.	R	C	Y	B	d₂	L₁	L₂	L₃
DID 40-2 2P-TR-F	15.88	12.7	17.45	9.5	3.97	17.1	15.5	13.2
DID 50-2 2P-TR-F	19.05	16.2	22.55	12.7	5.24	21.0	19.3	16.2
DID 60-2 2P-TR-F	22.23	18.3	26.25	15.9	5.96	26.6	24.2	20.4
DID 80-2 2P-TR-F	28.58	24.6	34.15	19.1	7.94	33.6	31.1	26.1
DID100-2 2P-TR-F	39.69	31.8	44.5	25.4	9.54	40.6	37.7	31.0

Note: Ask us for the delivery time

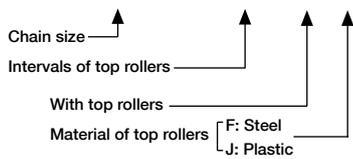
Small Conveyor Chains

Others

● Simplex Every-link Top Roller Chain

[Type indication]

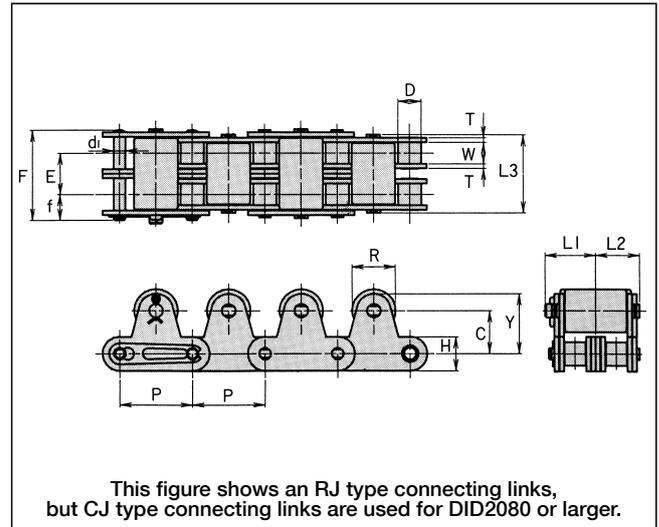
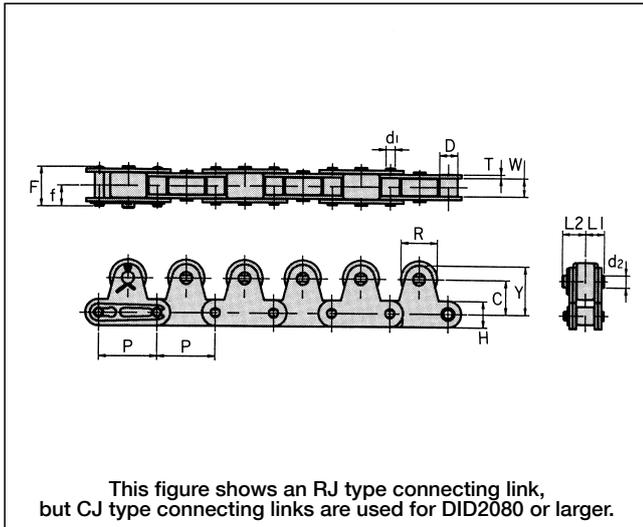
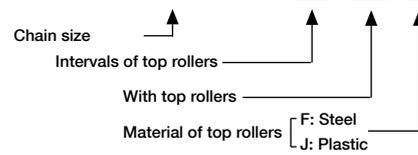
DID C2050 1P-TR-F



● Duplex Every-link Top Roller Chain

[Type indication]

DID C2060H-2 1P-TR-F



1. The connecting links for DIDC2080H-2 ~ C2100H-2 are cotter types. Even so, the dimensions of pins are the same as those shown in the table of dimensions.
2. In the case of DIDC2060H-2 or larger, dimension E (transverse pitch) is different from that of the standard sprocket. Refer to the tooth profile for HK type duplex chains (P118).
3. When attached to even-numbered links, the top rollers are attached to inner links unless specified otherwise.

Dimensions of chain

Unit (mm)

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Pin			Plate		Duplex transverse pitch E	Strength of simplex				Strength of duplex			
				d₁	F	f	T	H		Avg. tensile strength		Max. allowable load		Avg. tensile strength		Max. allowable load	
										kN	kgf	kN	kgf	kN	kgf	kN	kgf
DID C2040 TR DID C2042 TR	25.40	7.95	7.92 15.88	3.97	17.6	9.5	1.5	11.7	14.4	17.0	1,740	2.64	270	34.0	3,480	4.49	460
DID C2050 TR DID C2052 TR	31.75	9.53	10.16 19.05	5.09	21.9	11.6	2.0	15.1	18.1	28.7	2,930	4.41	450	57.4	5,860	7.49	760
DID C2060H TR DID C2062H TR	38.10	12.70	11.91 22.23	5.96	30.1	16.1	3.2	17.2	26.2	40.2	4,100	6.47	660	80.4	8,200	11.0	1,120
DID C2080H TR DID C2082H TR	50.80	15.88	15.88 28.58	7.94	38.7	20.6	4.0	23.3	32.6	68.6	7,000	11.2	1,150	137	14,000	19.0	1,950
DID C2100H TR DID C2102H TR	63.50	19.05	19.05 36.68	9.54	45.8	24.4	4.8	28.8	39.1	112	11,500	18.6	1,900	224	23,000	31.6	3,230

Dimensions of top roller

Chain No.	Simplex								Duplex								
	Dimensions						Approx. weight (kg/m)		Dimensions						Approx. weight (kg/m)		
	R	C	Y	L₁	L₂	d₂	Iron	Plastic	R	C	Y	d₂	L₁	L₂	L₃	Iron	Plastic
DID C2040 TR DID C2042 TR	15.88	15.0	21.0	8.45	10.1	5.24	1.31 1.68	0.89 1.26	15.88	15.0	21.0	5.24	17.1	15.5	28.0	2.48 3.12	1.64 2.34
DID C2050 TR DID C2052 TR	19.05	19.0	26.5	10.50	12.9	5.96	2.04 2.52	1.44 1.92	19.05	19.0	26.5	5.96	22.0	19.6	34.4	3.87 4.78	2.73 3.64
DID C2060H TR DID C2062H TR	22.23	23.0	31.6	14.75	17.4	7.94	3.62 4.34	2.71 3.44	22.23	23.0	31.6	7.94	30.5	27.9	49.0	6.87 8.24	5.14 6.53
DID C2080H TR DID C2082H TR	28.58	29.0	39.3	17.80	20.6	9.54	5.58 6.69	4.22 5.33	28.58	29.0	39.3	9.54	36.9	34.5	60.5	10.60 12.71	8.01 10.12
DID C2100H TR DID C2102H TR	39.69	35.4	48.7	22.10	26.6	14.29	9.02 11.28	6.42 8.68	39.69	35.4	49.7	14.29	46.2	41.7	73.0	17.13 21.43	12.19 16.49

Note: 1. Approx. weight is of the chain with every 2 pitch top roller (for inner link).
2. The plastic top roller is made of polyacetal.

Chain No. - Top Roller Chain series (Double pitch)

Standard	Nickel Plated	Double Guard	X,O-ring	X,O-ring (Nickel Plated)	Sintered	Sintered (Nickel Plated)
DID C2040 TR	DID C2040N TR	DID C2040WG TR	DID C2040LX TR	DID C2040LXN TR	DID C2040UR TR	DID C2040URN TR
DID C2042 TR	DID C2042N TR	DID C2042WG TR	DID C2042LX TR	DID C2042LXN TR	DID C2042UR TR	DID C2042URN TR
DID C2050 TR	DID C2050N TR	DID C2050WG TR	DID C2050LX TR	DID C2050LXN TR	DID C2050UR TR	DID C2050URN TR
DID C2052 TR	DID C2052N TR	DID C2052WG TR	DID C2052LX TR	DID C2052LXN TR	DID C2052UR TR	DID C2052URN TR
DID C2060H TR	DID C2060HN TR	DID C2060HWG TR	DID C2060HLX TR	DID C2060HLXN TR	DID C2060HUR TR	DID C2060HURN TR
DID C2062H TR	DID C2062HN TR	DID C2062HWG TR	DID C2062HLX TR	DID C2062HLXN TR	DID C2062HUR TR	DID C2062HURN TR
DID C2080H TR	DID C2080HN TR	DID C2080HWG TR			DID C2080HUR TR	DID C2080HURN TR
DID C2082H TR	DID C2082HN TR	DID C2082HWG TR			DID C2082HUR TR	DID C2082HURN TR
DID C2100H TR	DID C2100HN TR	DID C2100HWG TR				
DID C2102H TR	DID C2102HN TR	DID C2102HWG TR				

Small Conveyor Chains **Overturn Prevention Type Top Roller Chain**

Top Roller Chains are also available with guide links that prevent overturning of loads by suppressing chain inclination.

[Type indication]

Guide links are attached to inner link plates unless specified otherwise.

DID 50 2P-TR-F (6P-TGI)

Top roller chain

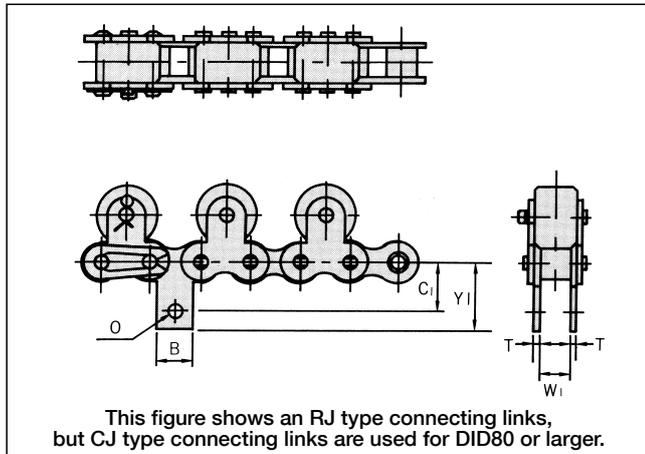
Guide links are attached to the inner plates of every six links. (TG stands for T-shaped guide.)

This guide link is not available for single pitch every-link top roller chains. SK1 standard attachment is used as the guide links for single pitch chains.

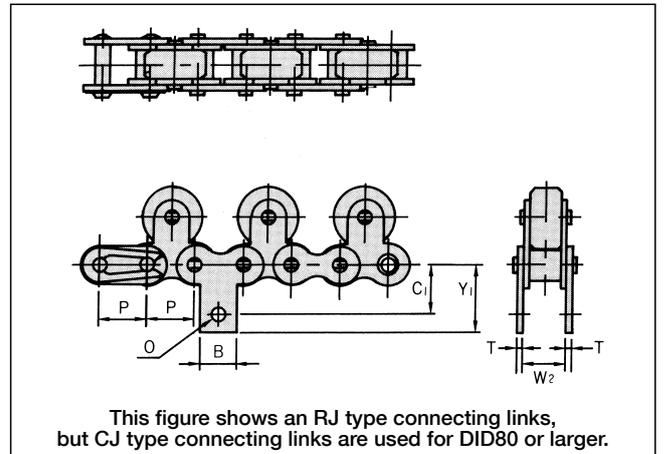
Small Conveyor Chains

Others

Guide link on inner link plates for single pitch chain



Guide link on outer link plates for single pitch chain



Dimensions of TG link for single pitch chain Unit (mm)

Chain No.	Pitch P	Dimensions						
		B	Y₁	C₁	T	W₁	W₂	O
DID 40 TG	12.70	9.5	17.50	12.70	1.5	7.95	11.23	3.5
DID 50 TG	15.875	12.7	22.60	15.88	2.0	9.53	13.90	5.2
DID 60 TG	19.05	15.9	26.20	18.26	2.4	12.70	17.81	5.2
DID 80 TG	25.40	19.1	34.05	24.61	3.2	15.88	22.66	6.8
DID100 TG	31.75	25.4	42.75	31.75	4.0	19.05	27.51	8.7

Chain No. - Top Roller Chain Overturn Prevention Series (Single Pitch)

Standard	Nickel Plated	Double Guard	X,O-ring	X,O-ring (Nickel Plated)	Sintered	Sintered (Nickel Plated)
DID 40 TG	DID 40N TG	DID 40WG TG	DID 40LX TG	DID 40LXN TG	DID C40UR TG	DID C40URN TG
DID 50 TG	DID 50N TG	DID 50WG TG	DID 50LX TG	DID 50LXN TG	DID C50UR TG	DID C50URN TG
DID 60 TG	DID 60N TG	DID 60WG TG	DID 60LX TG	DID 60LXN TG	DID C60UR TG	DID C60URN TG
DID 80 TG	DID 80N TG	DID 80WG TG	DID 80LD TG	DID 80LDN TG	DID C80UR TG	DID C80URN TG
DID100 TG	DID100N TG	DID100WG TG	DID100LD TG	DID100LDN TG		

[Type indication]

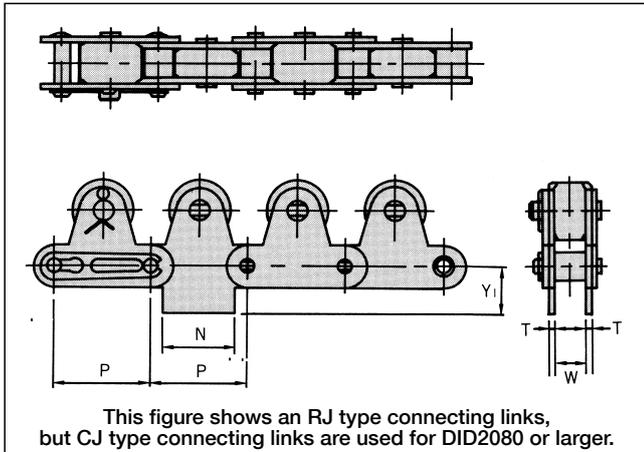
Guide links are attached to inner link plates unless specified otherwise.

DID C2050 1P-TR-F (6P-TG inner)

Top roller chain →
 Guide links are attached to the inner plates of every six links. (TG stands for T-shaped guide.)

Guide links for double pitch chains can not be attached to outer plates.

Guide link for double pitch chain



Dimensions of TG link for double pitch chain Unit (mm)

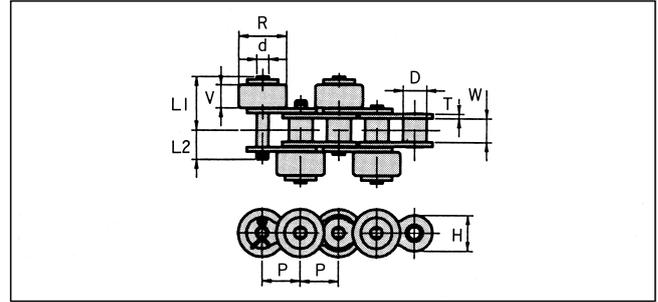
Chain No.	Pitch P	Dimensions			
		N	Y ₁	T	W
DID C2040 TG	25.40	19.1	12.7	1.5	7.95
DID C2050 TG	31.75	23.8	15.9	2.0	9.53
DID C2060H TG	38.10	28.6	19.1	3.2	12.70
DID C2080H TG	50.80	38.1	25.4	4.0	15.88
DID C2100H TG	63.50	47.6	31.8	4.8	19.05

Chain No. - Top Roller Chain Overturn Prevention Series (Double Pitch)

Standard	Nickel Plated	Double Guard	X,O-ring	X,O-ring (Nickel Plated)	Sintered	Sintered (Nickel Plated)
DID C2040 TG	DID C2040N TG	DID C2040WG TG	DID C2040LX TG	DID C2040LXN TG	DID C2040UR TG	DID C2040URN TG
DID C2042 TG	DID C2042N TG	DID C2042WG TG	DID C2042LX TG	DID C2042LXN TG	DID C2042UR TG	DID C2042URN TG
DID C2050 TG	DID C2050N TG	DID C2050WG TG	DID C2050LX TG	DID C2050LXN TG	DID C2050UR TG	DID C2050URN TG
DID C2052 TG	DID C2052N TG	DID C2052WG TG	DID C2052LX TG	DID C2052LXN TG	DID C2052UR TG	DID C2052URN TG
DID C2060H TG	DID C2060HN TG	DID C2060HWG TG	DID C2060HLX TG	DID C2060HLXN TG	DID C2060HUR TG	DID C2060HURN TG
DID C2062H TG	DID C2062HN TG	DID C2062HWG TG	DID C2062HLX TG	DID C2062HLXN TG	DID C2062HUR TG	DID C2062HURN TG
DID C2080H TG	DID C2080HN TG	DID C2080HWG TG			DID C2080HUR TG	DID C2080HURN TG
DID C2082H TG	DID C2082HN TG	DID C2082HWG TG			DID C2082HUR TG	DID C2082HURN TG
DID C2100H TG	DID C2100HN TG	DID C2100HWG TG				
DID C2102H TG	DID C2102HN TG	DID C2102HWG TG				

Single pitch side roller chains

A side roller chain receives the load of conveyed articles by side rollers, and is used for a free flow conveyor running on rails. Since the number of rollers for receiving the load of conveyed articles is larger, a side roller chain can convey heavier articles than a top roller chain made of the same material. Furthermore, since the center of gravity of the chain is low, stability is also better. For selection and design of chain, see P206. All the connecting links of side roller chains are cotter types (CJ type connecting links) as illustrated.



[Type indication]

DID 40 1P-SR-JT

Chain size →
 Installation intervals of side rollers →
 Side roller →
 Installation method: T: Staggered type, H: Parallel type
 Material of side rollers: E: Antistatic Plastic, F: Steel, J: Plastic

Unit (mm)

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Plate			Pin			Side roller		Avg. tensile strength		Max. allowable load		Approx. weight (kg/ pc.)	
				T	H	d	L ₁	L ₂	L ₃	R	V	kN	kgf	kN	kgf	Plastic side roller	Iron side roller
DID 40 SR	12.70	7.95	7.92	1.5	12.0	3.97	17.7	10.1	19.5	15.88	7.8	16.6	1,700	2.64	270	0.004	0.013
DID 50 SR	15.875	9.53	10.16	2.0	15.0	5.09	21.7	12.0	23.5	19.05	9.4	27.9	2,850	4.41	450	0.007	0.023
DID 60 SR	19.05	12.70	11.91	2.4	18.1	5.96	27.8	15.1	30.3	22.23	12.6	40.2	4,100	6.37	650	0.013	0.042
DID 80 SR	25.40	15.88	15.88	3.2	24.0	7.94	35.1	19.0	37.7	28.58	15.8	78.4	8,000	10.7	1,100	0.026	0.086
DID100 SR	31.75	19.05	19.05	4.0	29.9	9.54	42.4	22.8	45.4	39.69	19.0	118.0	12,100	17.1	1,750	0.084	0.197

Note: 1. L₃ indicates the value of L₁ when cotter type pins are used.
 2. The material of plastic side roller is polyacetal.

Chain No. - Side Roller Chain Series (Single Pitch)

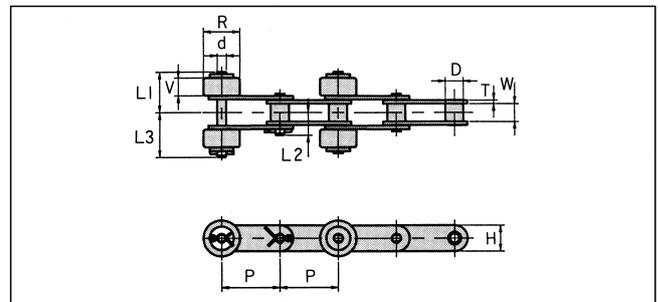
Standard	Nickel Plated	Double Guard	X,O-ring	X,O-ring (Nickel Plated)	Sintered	Sintered (Nickel Plated)
DID 40 SR	DID 40N SR	DID 40WG SR	DID 40LX SR	DID 40LXN SR	DID C40UR SR	DID C40URN SR
DID 50 SR	DID 50N SR	DID 50WG SR	DID 50LX SR	DID 50LXN SR	DID C50UR SR	DID C50URN SR
DID 60 SR	DID 60N SR	DID 60WG SR	DID 60LX SR	DID 60LXN SR	DID C60UR SR	DID C60URN SR
DID 80 SR	DID 80N SR	DID 80WG SR	DID 80LX SR	DID 80LXN SR	DID C80UR SR	DID C80URN SR
DID100 SR	DID100N SR	DID100WG SR	DID100LX SR	DID100LXN SR		

Double pitch side roller chains

S-roller type [Type indication]

DID C2050 2P-SR-JT

Chain size →
 Installation intervals of side rollers →
 Side roller →
 Installation method: T: Staggered type, H: Parallel type
 Material of side rollers: E: Antistatic Plastic, F: Steel, J: Plastic



Unit (mm)

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Plate			Pin			Side roller		Avg. tensile strength		Max. allowable load		Approx. weight (kg/ pc.)	
				T	H	d	L ₁	L ₂	L ₃	R	V	kN	kgf	kN	kgf	Plastic side roller	Iron side roller
DID C2040 SR	25.40	7.95	7.92	1.5	11.7	3.97	17.7	10.1	19.5	15.88	7.8	17.0	1,740	2.64	270	0.004	0.013
DID C2050 SR	31.75	9.53	10.16	2.0	15.1	5.09	21.7	12.0	23.5	19.05	9.4	28.7	2,930	4.41	450	0.007	0.023
DID C2060H SR	38.10	12.70	11.91	3.2	17.2	5.96	29.4	17.0	32.0	22.23	12.6	40.2	4,100	6.47	660	0.013	0.042
DID C2080H SR	50.80	15.88	15.88	4.0	23.3	7.94	36.7	20.7	39.3	28.58	15.8	68.6	7,000	11.2	1,150	0.026	0.086
DID C2100H SR	63.50	19.05	19.05	4.8	28.8	9.54	43.7	24.5	46.9	39.69	19.0	112.0	11,500	18.6	1,900	0.084	0.197

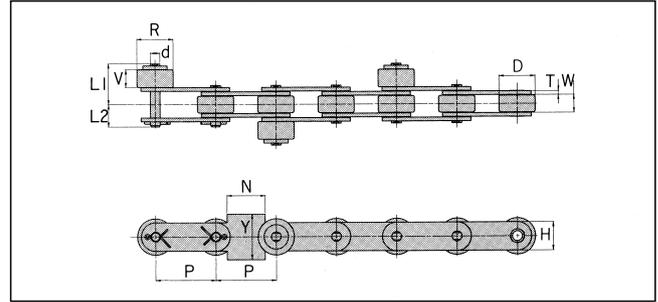
Note: 1. The material of plastic side roller is polyacetal.

Chain No. - Side Roller Chain Series (Double Pitch)

Standard	Nickel Plated	Double Guard	X,O-ring	X,O-ring (Nickel Plated)	Sintered	Sintered (Nickel Plated)
DID C2040 SR	DID C2040N SR	DID C2040WG SR	DID C2040LX SR	DID C2040LXN SR	DID C2040UR SR	DID C2040URN SR
DID C2042 SR	DID C2042N SR	DID C2042WG SR	DID C2042LX SR	DID C2042LXN SR	DID C2042UR SR	DID C2042URN SR
DID C2050 SR	DID C2050N SR	DID C2050WG SR	DID C2050LX SR	DID C2050LXN SR	DID C2050UR SR	DID C2050URN SR
DID C2052 SR	DID C2052N SR	DID C2052WG SR	DID C2052LX SR	DID C2052LXN SR	DID C2052UR SR	DID C2052URN SR
DID C2060H SR	DID C2060HN SR	DID C2060HWG SR	DID C2060HLX SR	DID C2060HLXN SR	DID C2060HUR SR	DID C2060HURN SR
DID C2062H SR	DID C2062HN SR	DID C2062HWG SR	DID C2062HLX SR	DID C2062HLXN SR	DID C2062HUR SR	DID C2062HURN SR
DID C2080H SR	DID C2080HN SR	DID C2080HWG SR			DID C2080HUR SR	DID C2080HURN SR
DID C2082H SR	DID C2082HN SR	DID C2082HWG SR			DID C2082HUR SR	DID C2082HURN SR
DID C2100H SR	DID C2100HN SR	DID C2100HWG SR				
DID C2102H SR	DID C2102HN SR	DID C2102HWG SR				

Meandering prevention chains

An R roller type double pitch chain with side rollers uses higher inner plates to keep the rail between them and prevent derailing of the R rollers. Furthermore, larger side rollers are used for higher live load capacity.



[Type indication]

DID C2052 2P-SG-JT

Chain size ——— ↑
 Installation intervals of side rollers ——— ↑
 Meandering prevention type (Specify the intervals for the meandering prevention installation.) ——— ↑
 Installation method ——— ↑
 Material of side rollers ——— ↑

T: Staggered type
 H: Parallel type
 E: Antistatic Plastic
 F: Steel
 J: Plastic

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Plate		Pin			Side roller		N	Y	Approx. weight (kg/pc.)	
				T	H	d	L₁	L₂	R	V			Plastic side roller	Iron side roller
DID C2042 SG	25.40	7.95	15.88	1.5	11.7	3.97	22.9	10.1	23	13	16.5	19.0	0.016	0.043
DID C2052 SG	31.75	9.53	19.05	2.0	15.1	5.09	25.3	12.1	27	13	20.0	24.0	0.023	0.060
DID C2062H SG	38.10	12.70	22.23	3.2	17.2	5.96	29.8	17.0	30	13	25.4	27.0	0.031	0.075

Note: The material of plastic side roller is polyacetal.

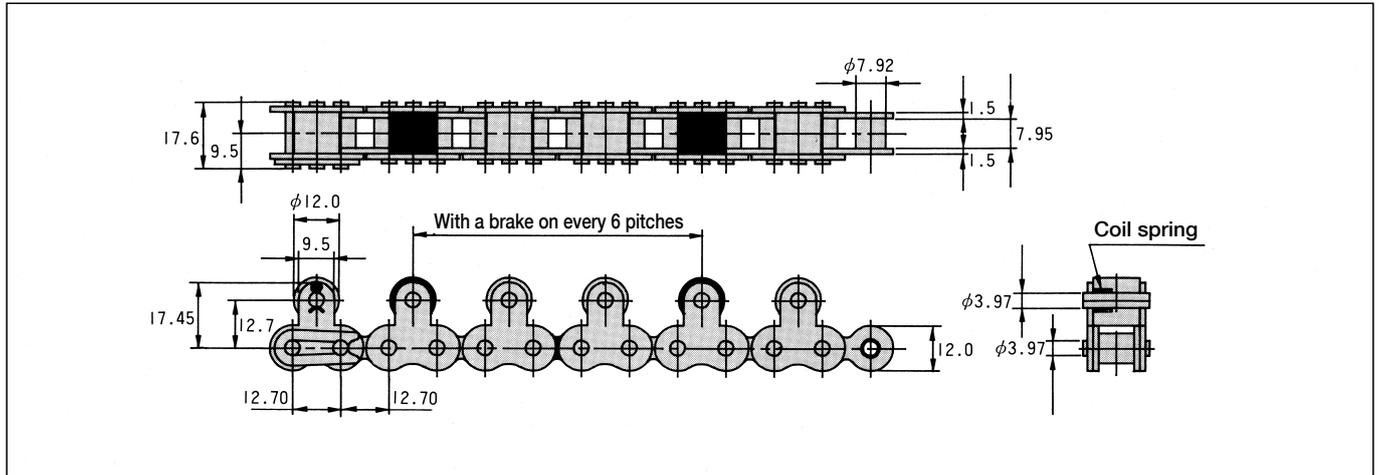
Chain No. - Side Roller Chain Meandering Prevention Series (Double Pitch)

Standard	Nickel Plated	Double Guard	X,O-ring	X,O-ring (Nickel Plated)	Sintered	Sintered (Nickel Plated)
DID C2042 SG	DID C2042N SG	DID C2042WG SG	DID C2042LX SG	DID C2042LXN SG	DID C2042UR SG	DID C2042URN SG
DID C2052 SG	DID C2052N SG	DID C2052WG SG	DID C2052LX SG	DID C2052LXN SG	DID C2052UR SG	DID C2052URN SG
DID C2062H SG	DID C2062HN SG	DID C2062HWG SG	DID C2062HLX SG	DID C2062HLXN SG	DID C2062HUR SG	DID C2062HURN SG

Small Conveyor Chains **Free Flow Chain with Breaks**

If the revolution friction resistance of the roller is too small, loads can be stuck with the slightest friction. The revolution friction resistance of the Free Flow Chain is enhanced by applying breaks for some of the rollers to prevent accumulation of loads.

Top Roller Chain with Breaks (TRB)



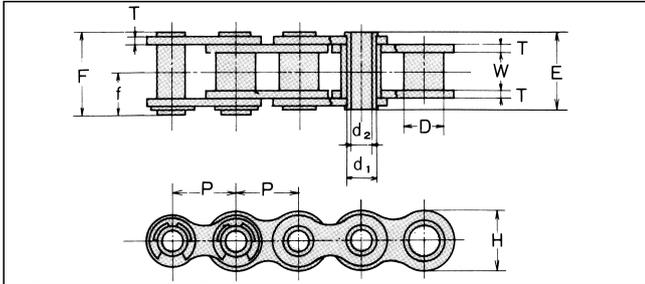
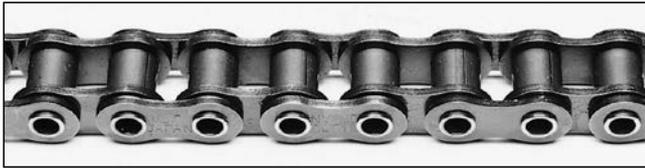
The above figure is an example of DID40 Top Roller Chain with breaks.

Small Conveyor Chains

Others

Small Conveyor Chains **Hollow Pin Chain**

● Single pitch chain



This chain is connected by hollow pins, and the hollows can be used to attach various attachments. In hollow pin chain, the hollow pins are the same as the bushings of the corresponding standard chain in diameter, so hollow pin chain can be regarded as bushing chain that contains bushings of the same diameter as that of the rollers of the corresponding standard chain.

Standard sprockets can be used.

For design of chain transmission, refer to the slow-speed selection on P123.

The connecting links are special snap ring types for hollow pin chain as illustrated.

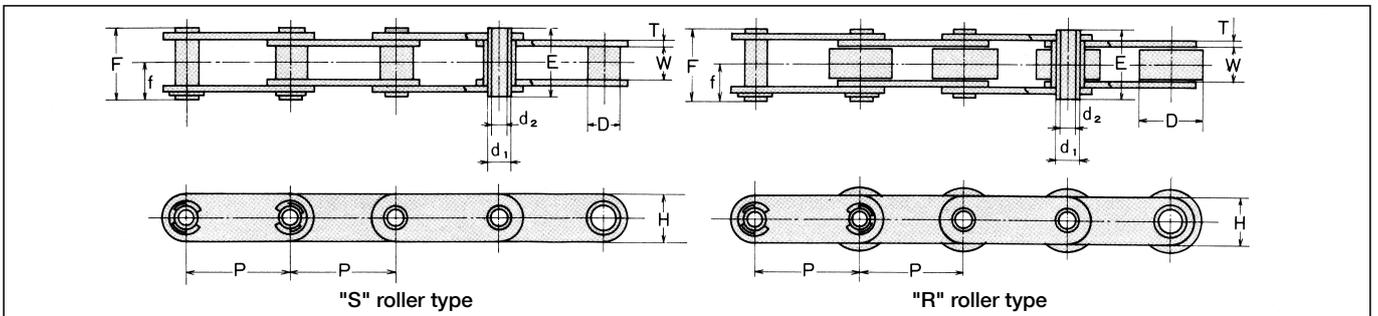
Since no offset link is available, the number of links should be an even number.

Unit (mm)

Chain No.	Pitch P	Roller link width W	bush dia. D	Pin					Plate		Avg. tensile strength		Max. allowable load		Approx. weight (kg/m)
				d₁	d₂	E	F	f	T	H	kN	kgf	kN	kgf	
DID 40HP	12.70	7.95	7.92	5.62	4.00	16.0	17.5	9.5	1.5	12.0	10.7	1,000	1.76	180	0.52
DID 50HP	15.875	9.53	10.16	7.20	5.12	20.2	21.7	11.6	2.0	15.0	19.6	2,000	3.13	320	0.86
DID 60HP	19.05	12.70	11.91	8.45	5.99	25.1	26.8	14.3	2.4	18.1	26.4	2,700	4.31	440	1.20

Note: The values of average tensile strength and maximum allowable load are for chains.

● Double pitch chain



Unit (mm)

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Pin					Plate		Avg. tensile strength		Max. allowable load		Approx. weight (kg/m)
				d₁	d₂	E	F	f	T	H	kN	kgf	kN	kgf	
DID C2040HP	25.40	7.95	7.92	5.62	4.00	16.0	17.5	9.5	1.5	11.7	10.7	1,100	1.76	180	0.44
DID C2042HP			15.88												0.81
DID C2050HP	31.75	9.53	10.16	7.20	5.12	20.2	21.7	11.6	2.0	15.1	19.6	2,000	3.13	320	0.75
DID C2052HP			19.05												1.21
DID C2060HP	38.10	12.70	11.91	8.45	5.99	25.1	26.8	14.3	2.4	17.2	26.4	2,700	4.21	430	1.32
DID C2062HP			22.23												2.79
DID C2080HP	50.80	15.88	15.88	11.30	8.02	32.5	34.1	17.8	3.2	23.3	48.0	4,900	7.65	780	1.72
DID C2082HP			28.58												2.67

Note: The values of average tensile strength and maximum allowable load are for chains.

Chain No. - Hollow Pin Chain Series

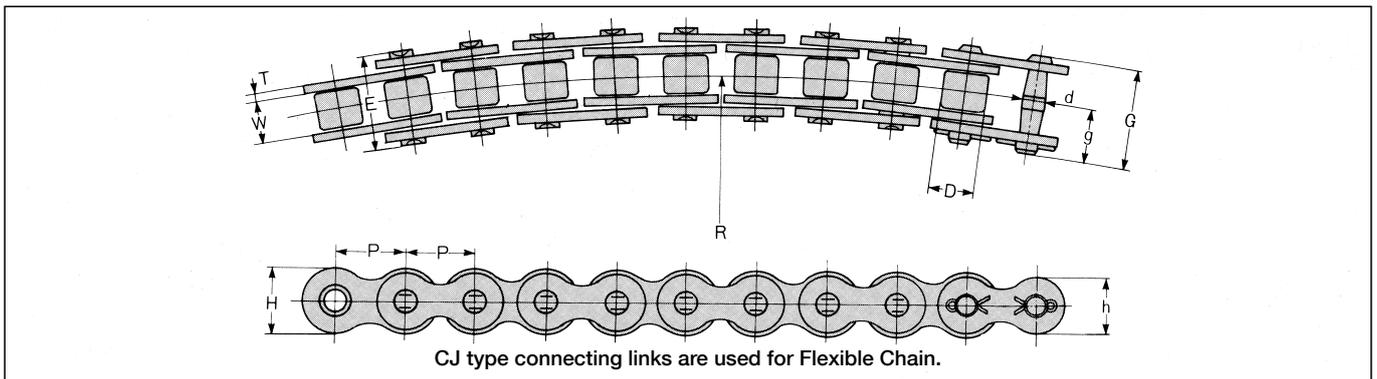
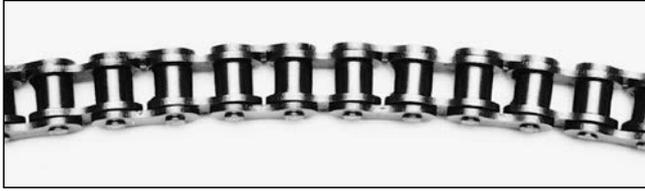
(Single Pitch)

Standard	Nickel Plated	Double Guard
DID 40HP	DID 40HPN	DID 40HPWG
DID 50HP	DID 50HPN	DID 50HPWG
DID 60HP	DID 60HPN	DID 60HPWG

(Double Pitch)

Standard	Nickel Plated	Double Guard
DID C2040HP	DID C2040HPN	DID C2040HPWG
DID C2042HP	DID C2042HPN	DID C2042HPWG
DID C2050HP	DID C2050HPN	DID C2050HPWG
DID C2052HP	DID C2052HPN	DID C2052HPWG
DID C2060HP	DID C2060HPN	DID C2060HPWG
DID C2062HP	DID C2062HPN	DID C2062HPWG
DID C2080HP	DID C2080HPN	DID C2080HPWG
DID C2082HP	DID C2082HPN	DID C2082HPWG

DID Flexible Chain has great sideward bending flexibility and is suitable for curved traveling. Sprockets for JIS/ANSI Standard Roller Chain can be used for this chain. By fixing attachments, this chain can be used for curved transfer with conveyors.



Unit (mm)

Chain No.	Pitch P	Roller link width W	Roller dia. D	Pin				Plate			Min. lateral bending radius R	Avg. tensile strength		Max. allowable load		Approx. weight (kg/m)
				d	E	G	g	T	H	h		kN	kgf	kN	kgf	
DID 40FX	12.70	7.95	7.92	3.97	16.9	18.6	10.4	1.5	12.0	10.4	350	15.7	1,600	1.86	190	0.60
DID 50FX	15.875	9.53	10.16	5.09	20.7	22.0	11.9	2.0	15.0	13.0	400	24.5	2,500	2.84	290	1.03
DID 60FX	19.05	12.70	11.91	5.96	25.8	28.4	15.4	2.4	18.1	15.6	500	35.3	3,600	4.02	410	1.31
DID 80FX	25.40	15.88	15.88	7.94	33.8	36.5	19.5	3.2	24.0	20.8	600	61.8	6,300	6.96	710	2.60

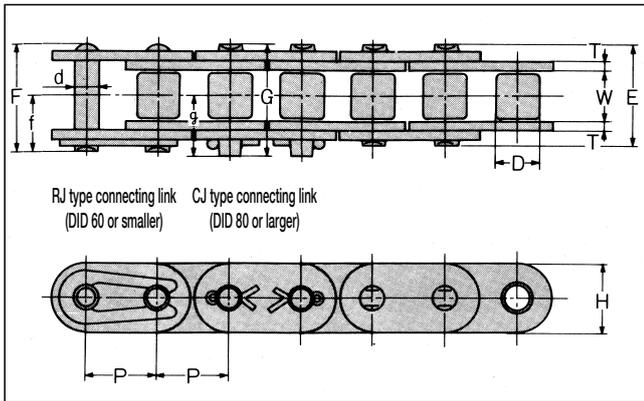
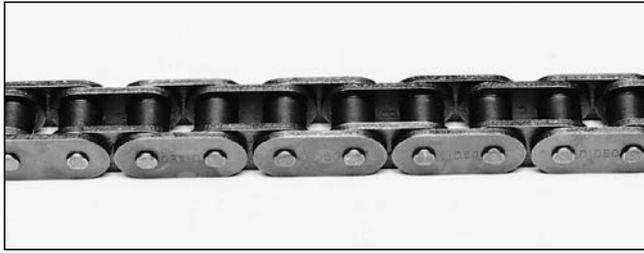
Note 1. The radius of the curve must be set larger than the values above.
 2. The values of average tensile strength and maximum allowable load are for chains.

Chain No. - Flexible Chain Series

Standard	Nickel Plated	Double Guard
DID 40FX	DID 40FXN	DID 40FXWG
DID 50FX	DID 50FXN	DID 50FXWG
DID 60FX	DID 60FXN	DID 60FXWG
DID 80FX	DID 80FXN	DID 80FXWG

Small Conveyor Chains Flat Type Roller Chain

This chain is suited for conveyor systems because it has flat plates that cause little damage to components such as chain guides. (The forms of outer plates and inner plates are the same.)



Chain No.	Pitch P	Roller link width W	Roller (Bush) dia. D	Pin						Plate		Avg. tensile strength		Avg. tensile strength (kg/m)
				d	E	F	G	g	f	T	H	kN	kgf	
				Unit (mm)										
DID35F	9.525	4.78	(5.08)	3.59	12.0	13.1	—	—	7.3	1.25	9.0	11.2	1,150	0.39
DID40F	12.70	7.95	7.92	3.97	16.5	17.6	—	—	9.5	1.5	12.0	19.1	1,950	0.65
DID50F	15.875	9.53	10.16	5.09	20.3	21.9	—	—	11.6	2.0	15.0	30.8	3,150	1.15
DID60F	19.05	12.70	11.91	5.96	25.4	26.9	—	—	14.3	2.4	18.1	44.1	4,500	1.70
DID80F	25.40	15.88	15.88	7.94	32.6	—	35.4	19.0	—	3.2	24.0	78.4	8,000	2.67
DID100F	31.75	19.05	19.05	9.54	39.5	—	42.5	22.7	—	4.0	29.9	118	12,100	4.19
DID120F	38.10	25.40	22.23	11.11	49.7	—	53.0	28.2	—	4.8	35.9	166	17,000	6.12

Note: Consult us for sizes other than the above.

Chain No. - Flat Type Roller Chain Series

Standard	Nickel Plated	Double Guard	High Guard	X,O-ring	X,O-ring (Nickel Plated)
DID 35F	DID 35FN	DID 35FWG	DID 35FE	DID 35FLD	DID 35FLDN
DID 40F	DID 40FN	DID 40FWG	DID 40FE	DID 40FLX	DID 40FLXN
DID 50F	DID 50FN	DID 50FWG	DID 50FE	DID 50FLX	DID 50FLXN
DID 60F	DID 60FN	DID 60FWG	DID 60FE	DID 60FLX	DID 60FLXN
DID 80F	DID 80FN	DID 80FWG	DID 80FE	DID 80FLD	DID 80FLDN
DID 100F	DID 100FN	DID 100FWG	DID 100FE	DID 100FLD	DID 100FLDN
DID 120F	DID 120FN	DID 120FWG	DID 120FE	DID 120FLD	DID 120FLDN