

























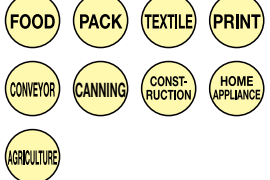
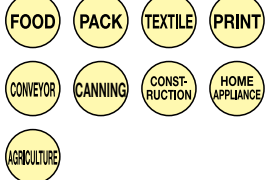
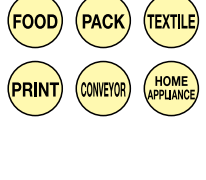
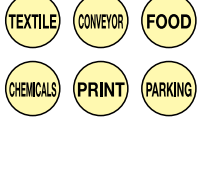


Conveyor Chain with Standard Attachments Series (Double Pitch)

Name	Wear Resistance Chain Series			
	Standard Roller Chain	X-Ring Chain (LX) O-Ring Chain (LD)	Fit X-Ring Chain (LF)	Sintered Bushing Roller Chain (UR), (URN)
				
Features	<ul style="list-style-type: none"> ① DID X-Ring chain is the best value of maintenance-free chain available. ② The patented X-Ring design has half the friction of normal O-Ring chain and provides great sealing performance. It keeps the dirt out and the grease in much better than any other O-rings. ③ Up to 2 times longer wear resistance performance compared to normal O-Ring chains. ④ Great cost savings can be achieved through longer life and less down time. 	<ul style="list-style-type: none"> ① Strength is equivalent to existing X-Ring Chain/LX. ② Attachment can be designed using the same dimensions as JIS/ANSI standard. ③ Standard JIS/ANSI sprockets can be used for even multiplex. 	<ul style="list-style-type: none"> ① Sintered alloy used for bushes ② Long life chain for low-speed and light load operation ③ Wear life improved by 5 times of standard chains 	<ul style="list-style-type: none"> ① Specialized nickel coating ② Suitable for circumstances requiring a clean impression and neat appearance ③ Withstands salt breeze and acidic conditions
Functions	       <p>※ LX: Temp. -10°C~120°C, LD: Temp. -10°C~80°C</p>	     	  	    
Main uses				

Conveyor Chain with Standard Attachments Series (Double Pitch): Chain No. and Codes

Chain No.	Standard	O-Ring/X-Ring	Sintered Bushing	Nickel Plating	Double Guard	Hi-Guard
DID C2040	○	LX/LF	UR,URN	N	WG	E
DID C2042	○	LX/LF	UR,URN	N	WG	E
DID C2050	○	LX/LF	UR,URN	N	WG	E
DID C2052	○	LX/LF	UR,URN	N	WG	E
DID C2060H	○	LX	UR,URN	N	WG	E
DID C2062H	○	LX	UR,URN	N	WG	E
DID C2080H	○	-	UR,URN	N	WG	E
DID C2082H	○	-	UR,URN	N	WG	E
DID C2100H	○	-	-	N	-	E
DID C2102H	○	-	-	N	-	E
DID C2120H	○	-	-	N	-	E
DID C2122H	○	-	-	N	-	E
DID C2160H	○	-	-	N	-	E
DID C2162H	○	-	-	N	-	E

Note: 1. Standard chains are available for those indicated with ○.
2. Although the ones marked with - aren't standard products, consult us.

Environment Resistance Chain Series					Name
Double Guard Chain (WG)	Hi-Guard Chain (E)	Stainless Steel Chain		Stainless Steel X-Ring Chain (SSLT)	
		(SS)	(SSK)		
<ul style="list-style-type: none"> ① Approx. twice more corrosion resistant compared to the High Guard Chain ② Suitable for circumstances with mild acidic or mild alkaline solutions ③ Downsizing is possible compared to Stainless Steel Chains 	<ul style="list-style-type: none"> ① High corrosion resistance coating ② Suitable for circumstances both indoors and outdoors where long term resistance to rusting is required ③ Excellent resistance to corrosion, salt and rusting 	<ul style="list-style-type: none"> ① 18-8 stain ② Suitable for circumstances exposed to chemical agents, water and high temperature ③ Best corrosion resistance and heat resistance 	<ul style="list-style-type: none"> ① Suitable for circumstances with chemical agents, water and/or high temperature ② 1.5 times more tension allowance compared to SS type 	<ul style="list-style-type: none"> ① Superb wear resistance ② Outstanding cost performance ③ Significant reduction in friction-loss 	Features
					Functions
					Main uses

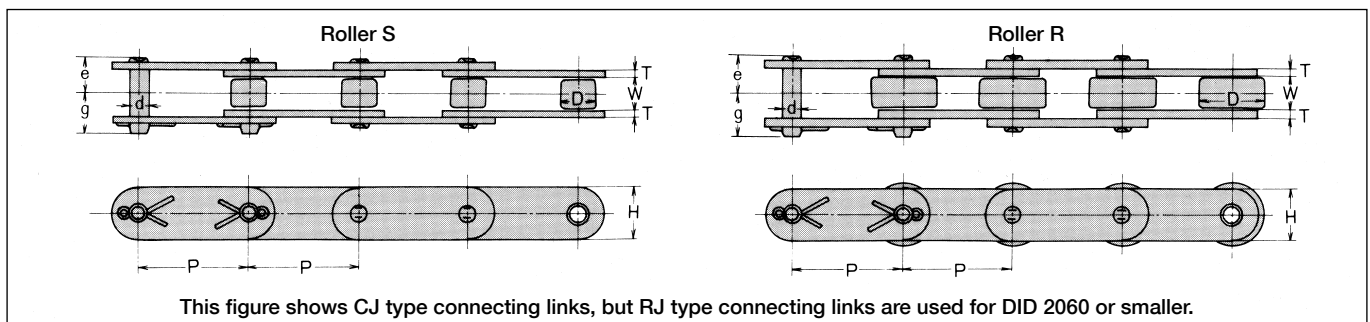
※1. Consult us when using the chain for hanging.
 ※2. Consult us before using.

Stainless Steel		Stainless Steel X-Ring Chain
SS	SSK	SSLT
SS	SSK	-
SS	SSK	SSLT
SS	SSK	-
SS	SSK	SSLT
SS	SSK	-
SS	SSK	SSLT
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Small Conveyor Chains
Double Pitch

Double pitch chain

In general, conveyor chains are operated for longer distances and at lower speeds than transmission chains. Accordingly, even though the pins, bushings and rollers are left unchanged, and the plate pitch is doubled to reduce the number of sprocket teeth engaged with the chain to half, the wear of pins, bushings and rollers is small since the chain speed is low. DID Double Pitch Chains, conform to ANSI standard and "Ultimate Life Chain Series" and "Environment Resistant Chain Series", as are single pitch chains also available. For information for sprockets, see "Sprockets for double pitch chains" on P.170.

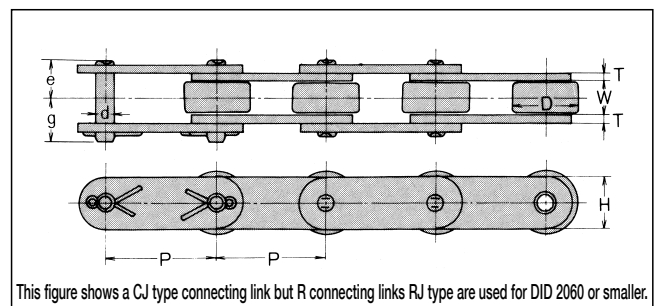


Double pitch chain with plastic rollers

This is a DID Double Pitch Chain with R Roller made of plastic, which generates less noise and lighter weight compared with steel rollers. Thus, the chain is suitable for a conveyor system designed to operate quietly and convey light-weight articles.

Since the components other than rollers are made of steel, the average tensile strength of a plastic roller chain is the same as that of a steel roller chain. However, the "maximum allowable load" of the chain should be kept lower, as shown in the following table, to prevent damage to the plastic rollers by the pressure from the engagement with sprockets.

The "Allowable load of plastic rollers" refers to the allowable load acting when conveyed articles press the plastic rollers traveling on the floor surface such as guid rails.



Chain No.	Roller material	Specification of chain components excluding rollers	Max. allowable load		Max. allowable load of resin roller		Weight (kg/m)	Allowable operational temperature
			kN	kgf	kN	kgf		
DID C2042	Plastic	3 variations are available. ● Standard steel ● Rustless type (nickel plated) ● Stainless steel	0.44	45	0.19	20	0.51	-10°C ~80°C
DID C2052			0.68	70	0.29	30	0.85	
DID C2062H			1.03	105	0.49	50	1.46	
DID C2082H			1.76	180	0.88	90	2.58	

Note: Ask us for the delivery time.

Large roller (R) and small rollers (S)

Since double pitch chains are frequently used for conveying products on a horizontal floor, chains designed for this purpose have increased roller diameter equal to that of single pitch chains of the same pitch for increased load capacity and lower traveling resistance. These rollers with larger outer diameter are called "large rollers", and the regular rollers are called "small rollers".

In this catalog, large rollers are expressed as R Roller, and small rollers as S Roller.

Designation of double pitch chains

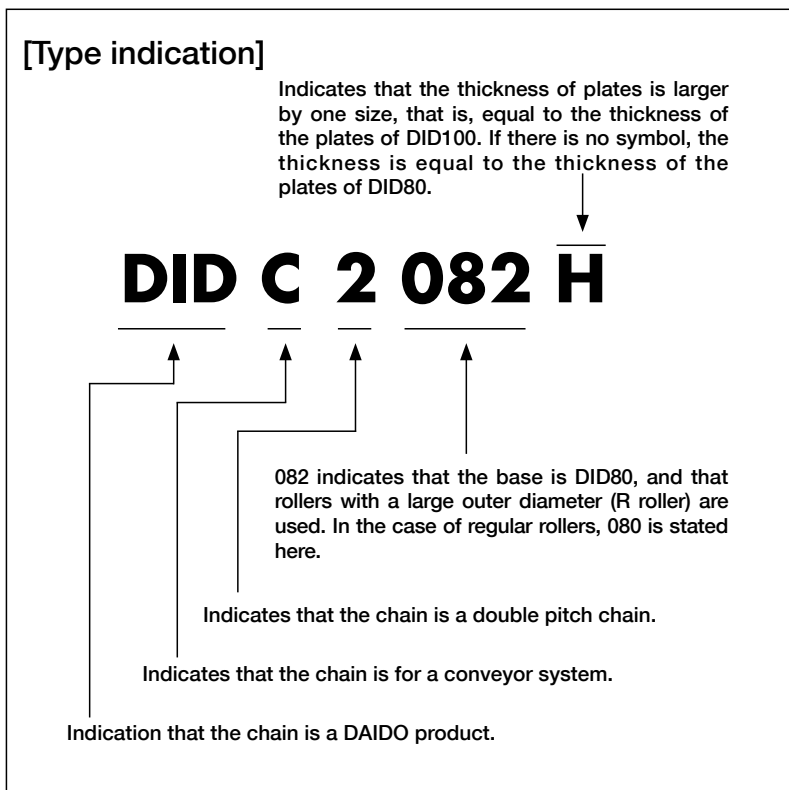
A double pitch chain is designated, as in the following example, based on the nominal number of the single pitch chain it is based on.

Cautions for selection and use

Cautions are described in "Calculation of Chain Tension". See P.206.

Connecting links

For the connecting links of double pitch chains of all sizes, the connecting plates and connecting pins are clearance-fitted. For DIDC2060H or smaller, the spring clip type (RJ type connecting link) is standard. For DIDC2080H or larger, the cotter type (CJ type connecting link) is standard. Connecting links with an attachment, top roller or side roller are also available.

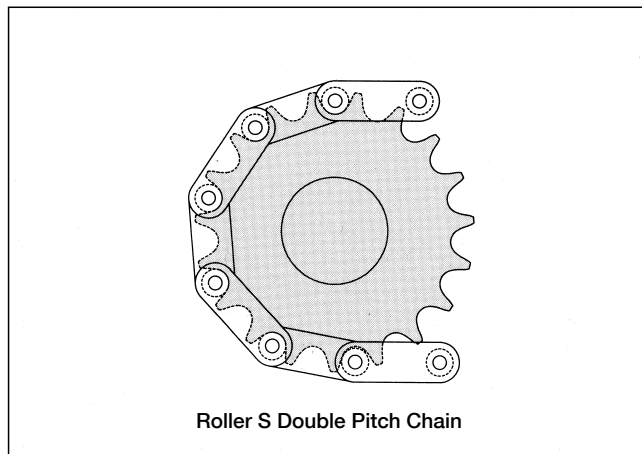


Sprockets for Double Pitch Chain

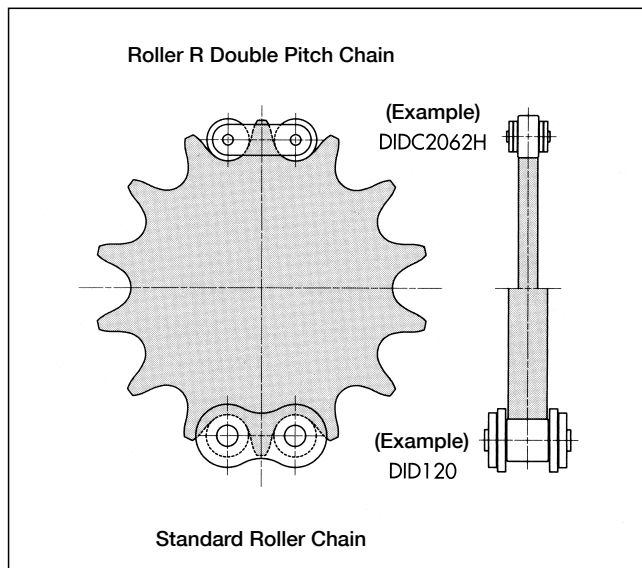
Sprockets for double pitch chains are different from sprockets of single pitch chains.

Therefore, use the sprockets shown on P.171. However, since chains are to some extent unaffected by difference in the engagement with sprockets, the sprockets of single pitch chains may be used for double pitch chains with larger number of teeth. Recommended sprockets are outlined below.

Number of teeth of double pitch sprocket	Recommended sprocket
9 or less	Avoid using a sprocket with nine or fewer teeth if possible, since the noise is greater and the vibration shortens the life of the chain and equipment.
9.5 to 14 (Example) For DIDC2050 chain	When the number of teeth is 9.5 to 14, use a hob for the base single pitch chain, and cut the sprocket teeth to achieve the D_p shown in the left table on P.173. Make the number of cut teeth double the intended operating teeth of the double pitch sprocket, or odd-numbered teeth larger than this by one. With odd-numbered teeth, the operating teeth alter with each revolution of the sprocket, enhancing sprocket durability. (In general, the D_p of the sprocket for a double pitch chain obtained by teeth cut using a hob for a single pitch chain is larger than the D_p of the sprocket for a single pitch chain with the same number of teeth.)
If a sprocket with 13 operating teeth is necessary, adopt a DID50 hob for 26 teeth or preferably 27 teeth. From the table at the bottom left on P.173, $D_p = 4.1786 \times 31.75 = 132.67$ (since 26 teeth mean 13 operating teeth), or $PCD = 4.3362 \times 31.75 = 137.67$ (since 27 teeth mean 13.5 operating teeth). (In the above formulas, 31.75 is the chain pitch of DIDC2050.)	When the number of teeth is in this range, do not use the sprocket for a single pitch chain. The wear life of the chain becomes about one half of a chain where a correct sprocket is used. (For example, if a double pitch chain is engaged with a single pitch sprocket with 22 teeth, it is equivalent to a chain elongated by about 1.0% from the beginning.)
15 or more	When the number of teeth is 15 or more, the sprocket for a single pitch chain can be used practically without any problem. Of course, the number of teeth of the single pitch sprocket should be double the number of teeth of the double pitch sprocket. Preferably use odd-numbered teeth by adding one more.

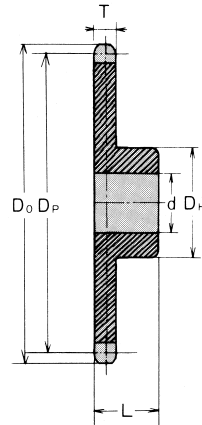


The above illustration shows a Roller S Double Pitch Chain engaged with a sprocket with 19 teeth for single pitch chain. The number of operating teeth for the double pitch chain is 9.5.

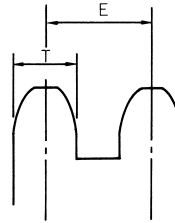


The above illustration shows a Roller R Double Pitch Chain and Standard Roller Chain with the same pitch engaged with a sprocket. It shows that the sprocket is different in thickness only. No single pitch chain sprocket is available for using differing chains. Consult us should you need such a sprocket.

Dimensions of Sprocket for Double Pitch Chain



Transverse pitch



Roller S

Unit (mm)

Size	No. of teeth	Operating teeth	Pitch circle dia. Dp	Outer dia. Do	Tooth thickness T	Transverse pitch E	Shaft bore dia. d	Hub P dia.	Hub Max dia. DH	Hub Length L	Approx. weight (kg)	Material
DID C2040	19	9 1/2	78.23	84	7.0	14.4	14	32	54	22	0.58	Carbon Steel
DID C2050	19	9 1/2	97.78	105	8.4	18.1	15	40	65	28	1.00	
DID C2060H	19	9 1/2	117.34	126	11.3	26.2	17	45	70	40	1.80	
	21	10 1/2	129.26	138	11.3	26.2	17	50	80	40	2.25	
	23	11 1/2	141.22	150	11.3	26.2	17	50	80	40	2.50	
	25	12 1/2	153.20	162	11.3	26.2	17	50	80	40	2.75	
DID C2080H	19	9 1/2	156.45	167	14.1	32.6	22	60	90	40	3.40	
DID C2100H	19	9 1/2	195.58	209	17.0	39.1	26	75	107	50	6.10	

Note: 1. Tooth end is hardened.
2. P dia refers to prepared bore diameter.

Pitch circle diameter (Dp) is generally calculated by the following formula using the number of operating teeth (Z) that engage with a double pitch chain.

$$Dp = Kp \times P$$

Kp: Coefficient of pitch circle diameter (refer to the table given below)

P: Nominal pitch of double pitch chain

Operating teeth Z	Coefficient of pitch circle dia. Kp	Operating teeth Z	Coefficient of pitch circle dia. Kp
5	1.7013	11	3.5495
5 1/2	1.8497	11 1/2	3.7065
6	2.0000	12	3.8637
6 1/2	2.1518	12 1/2	4.0211
7	2.3048	13	4.1786
7 1/2	2.4586	13 1/2	4.3362
8	2.6131	14	4.4940
8 1/2	2.7682	14 1/2	4.6518
9	2.9238		
9 1/2	3.0798		
10	3.2361		
10 1/2	3.3926		

Roller R

Unit (mm)

Size	No. of teeth	Operating teeth	Pitch circle dia. Dp	Outer dia. Do	Tooth thickness T	Transverse pitch E	Shaft bore dia. d	Hub P dia.	Hub Max dia. DH	Hub Length L	Approx. weight (kg)	Material
DID C2042	10	10	82.20	93	7.0	14.4	15	34	56	25	0.63	Carbon Steel
	11	11	90.16	102	7.0	14.4	15	34	56	25	0.72	
	12	12	98.14	108	7.0	14.4	15	34	56	25	0.75	
	13	13	106.14	118	7.0	14.4	15	42	63	25	0.97	
	14	14	114.15	127	7.0	14.4	15	42	63	25	1.00	
	15	15	122.17	135	7.0	14.4	15	43	63	28	1.15	
	16	16	130.20	143	7.0	14.4	15	43	63	28	1.25	
	17	17	138.23	151	7.0	14.4	17	45	70	28	1.45	
	18	18	146.27	159	7.0	14.4	17	45	70	28	1.53	
	19	19	154.32	167	7.0	14.4	17	45	70	28	1.65	
	20	20	162.37	176	7.0	14.4	17	45	70	28	2.00	
DID C2052	10	10	102.75	116	8.4	18.1	17	45	70	28	1.30	
	11	11	112.70	127	8.4	18.1	17	45	70	28	1.32	
	12	12	122.67	138	8.4	18.1	17	45	70	28	1.45	
	13	13	132.67	148	8.4	18.1	17	45	70	28	1.55	
	14	14	142.68	158	8.4	18.1	17	45	70	28	1.80	
	15	15	152.71	168	8.4	18.1	17	45	70	28	1.90	
	16	16	162.74	179	8.4	18.1	17	45	70	28	2.15	
	17	17	172.79	189	8.4	18.1	20	50	85	35	2.50	
	18	18	182.84	199	8.4	18.1	20	55	90	40	3.00	
	19	19	192.90	209	8.4	18.1	20	55	90	40	3.20	
	20	20	202.96	220	8.4	18.1	20	55	90	40	3.40	
DID C2062H	10	10	123.30	140	11.3	26.2	17	50	80	45	2.40	
	11	11	135.24	153	11.3	26.2	17	50	80	45	2.60	
	12	12	147.21	165	11.3	26.2	17	50	80	45	2.80	
	13	13	159.20	177	11.3	26.2	21	50	85	45	3.00	
	14	14	171.22	190	11.3	26.2	21	50	85	45	3.70	
	15	15	183.25	202	11.3	26.2	21	50	85	45	3.80	
	16	16	195.29	214	11.3	26.2	21	50	85	50	4.00	
	17	17	207.35	227	11.3	26.2	23	55	90	55	4.90	
	18	18	219.41	239	11.3	26.2	23	55	90	55	5.30	
	19	19	231.48	251	11.3	26.2	23	55	90	55	5.60	
	20	20	243.55	263	11.3	26.2	23	55	90	55	6.00	
DID C2082H	11	11	180.31	204	14.6	32.6	25	75	107	45	4.80	
DID C2102H	11	11	225.39	254	17.6	39.1	30	80	117	56	7.90	

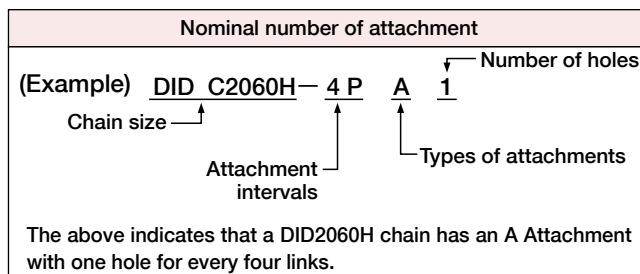
Note: 1. Teeth end is not hardened.
2. P dia refers to prepared bore diameter.
3. Ask us for the delivery time.

Standard Attachments

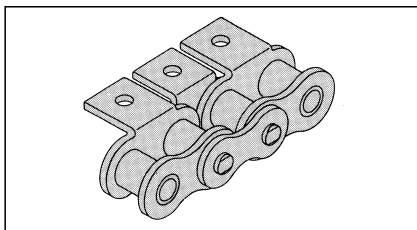
For DID Small Conveyor Chain, various links are available for coupling and attaching custom devices directly to the chains. These links are called attachments. The following standard attachments are available.

Types and names of standard attachments

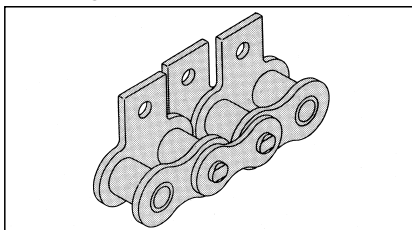
DID Standard Attachments include five kinds for single pitch chains and five kinds for double pitch chains as illustrated below. Standard attachments for respective chain sizes are listed on the following page.



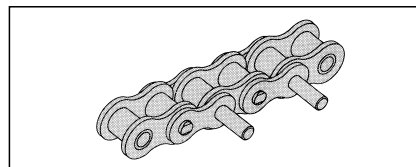
A (Bent attachment on one side)



SA (Straight attachment on one side)

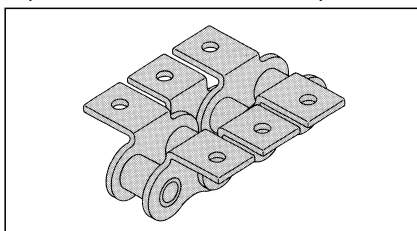


D (Extended pin)

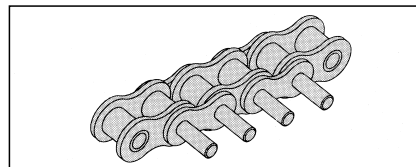
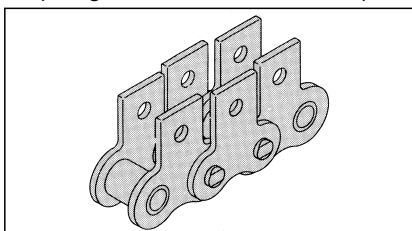


Above figure shows D1 (an extended pin set on every two links)

K (Bent attachment on each side)



SK (Straight attachment on each side)

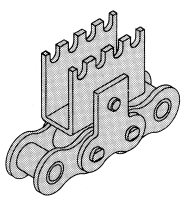


Above figure shows D3 (an extended pin set on every link)

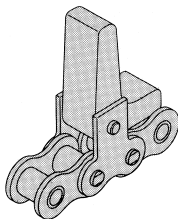
Ref : D pin with a particular length is called "Attachment LP" (abbreviation of Long Pin)

Examples of standard attachments

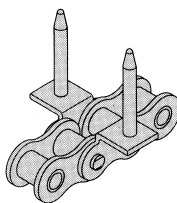
Installation of a U slot with **SK1**



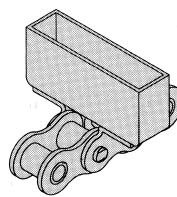
Installation of a dog with **SK1**



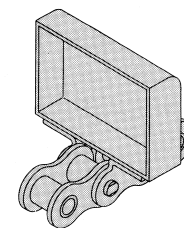
Installation of a pin with **K1**



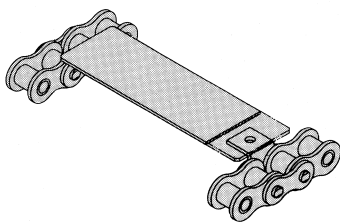
Installation of a bucket with **K1**



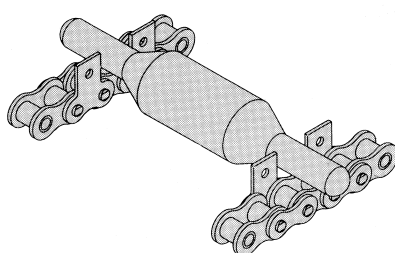
Installation of a bucket with **K1**



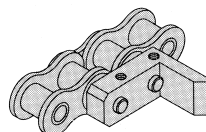
Installation of a strut with **K1**



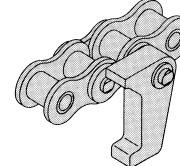
Conveyance of a long article by two strands of **SA1**



Installation of an L fitting with **D3**



Installation of a dog with **D1**



Standard Roller Chain Attachment

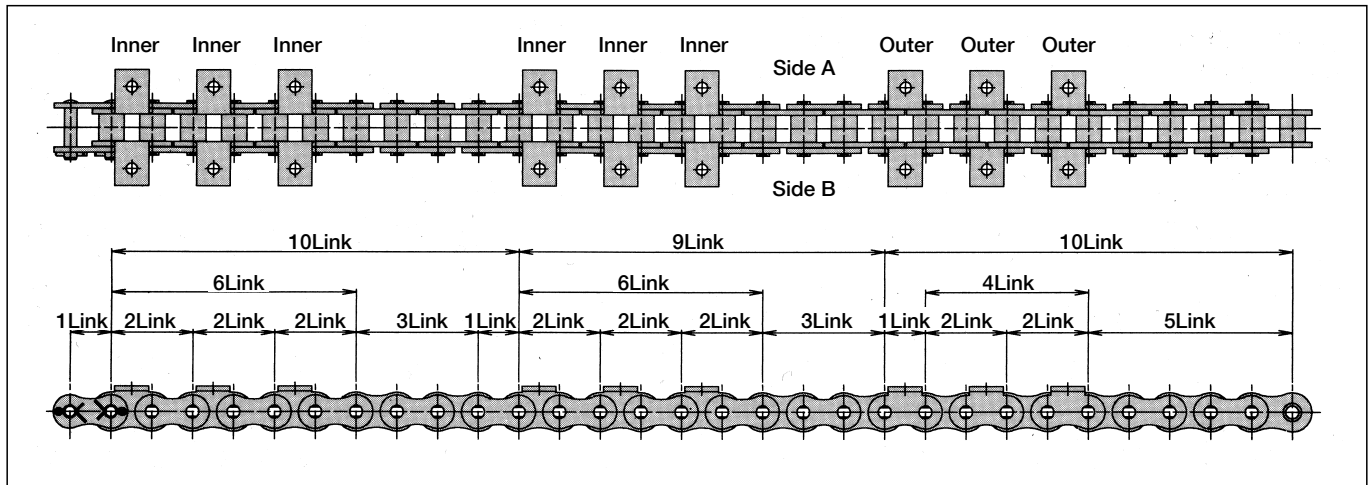
○ : Stock product
 △ : Made-to-order

		DID standard attachment										
		Standard attachment										
		One-side bent		Both sides bent		One side straight		Both sides straight		Extended pin		
		A1	A2	K1	K2	SA1	SA2	SK1	SK2	D1	D3	
Double pitch	Roller S	DID C2040	△	○	△	○	△	△	△	△	△	△
		DID C2050	△	○	△	○	△	△	△	△	△	△
		DID C2060H	△	○	△	○	△	△	△	△	△	△
		DID C2080H	△	○	△	○	△	△	△	△	△	△
		DID C2100H	△	△	△	△	△	△	△	△	△	△
		DID C2120H	△	△	△	△	△	△	△	△	△	△
Roller R		DID C2160H	△	△	△	△	△	△	△	△	△	△
		DID C2042	△	△	△	△	△	△	△	△	△	△
		DID C2052	△	△	△	△	△	△	△	△	△	△
		DID C2062H	△	△	△	△	△	△	△	△	△	△
		DID C2082H	△	△	△	△	△	△	△	△	△	△
		DID C2102H	△	△	△	△	△	△	△	△	△	△
	DID C2122H	△	△	△	△	△	△	△	△	△	△	
	DID C2162H	△	△	△	△	△	△	△	△	△	△	

Small Conveyor Chains

Double Pitch

Indication of specially arranged chains with attachments



A specially arranged chain with K1, as in the above illustration, is indicated as follows:

$$CJ + (K1 \text{ inner} + PL) \times 3 + 3LL + PL + (K1 \text{ inner} + PL) \times 3 + 3LL + K1 \text{ outer} + (RL + K1 \text{ outer}) \times 2 + 5LL$$

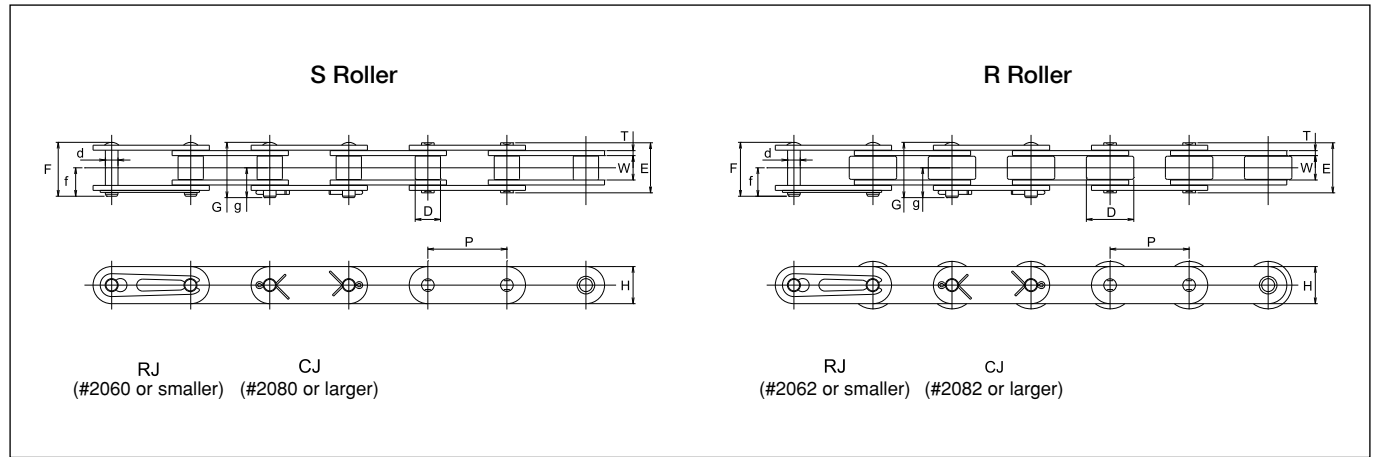
"CJ" stands for a C connecting link; "K1 inner", an inner link Attachment K1; "PL", an outer link; "3LL", three links from an inner link to an inner link; "K1 outer", an outer link Attachment K1; and "RL", an inner link.

A "+" sign means "connect", and an "×" sign means "repeat". (For one-side attachments such as Attachment A and Attachment SA, the position of attachment plates is on side A in the above illustration.)

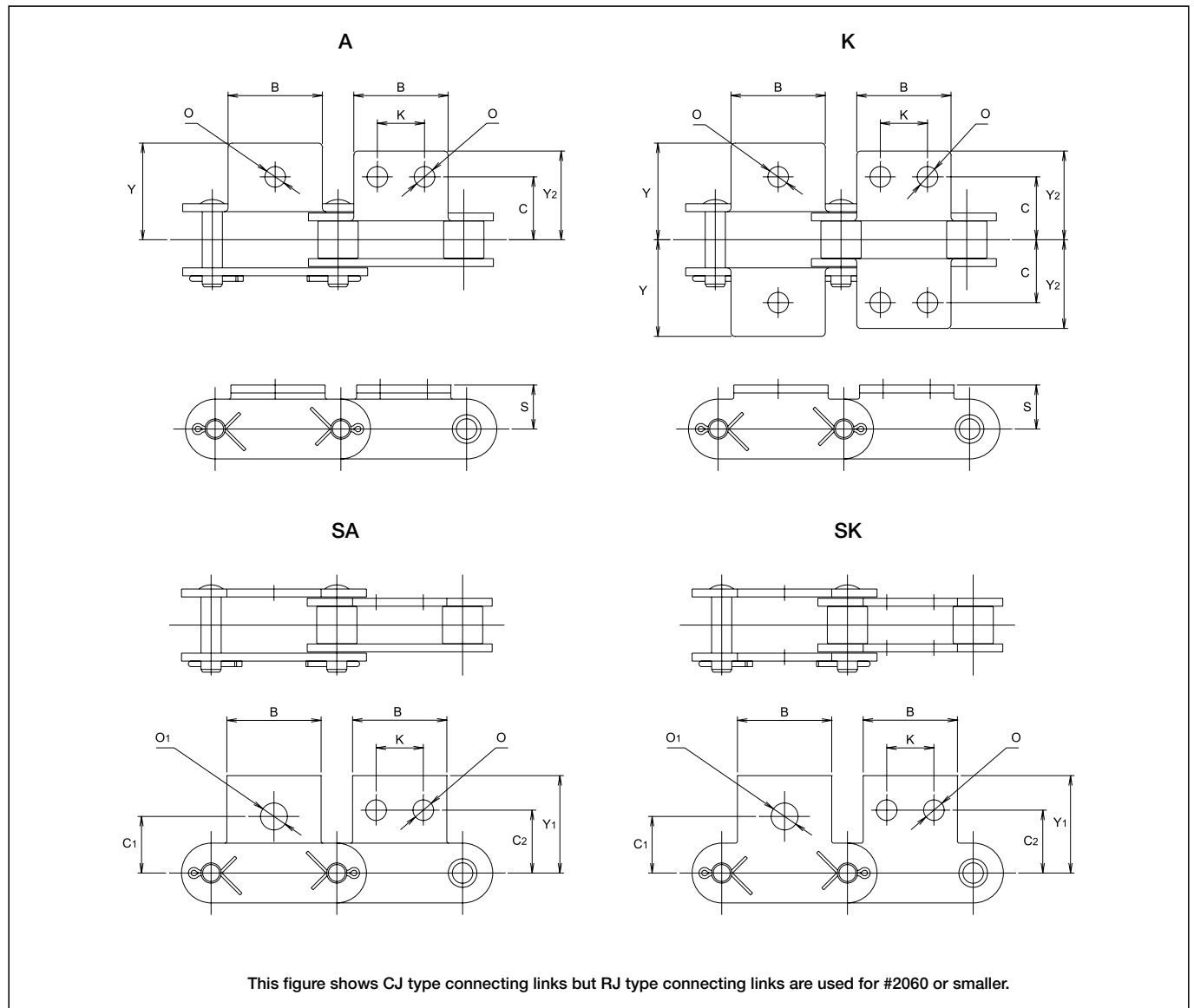
Consult us for other styles not mentioned here.

Note: When attaching attachments to every even-number link, they are attached to outer links, unless specified.

Chain



Attachment



Small Conveyor Chains

Double Pitch

Dimensions of Standard Roller Chain (Double pitch)

• 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		Approx. weight without attachments (kg/m)
				d	E	F	G	f	g	T	H	kN	kgf	kN	kgf	
DID C2040 DID C2042	25.40	7.95	7.92 15.88	3.97	16.5	17.6	—	9.5	—	1.5	11.7	17.0	1,740	2.64	270	0.49 0.86
DID C2050 DID C2052	31.75	9.53	10.16 19.05	5.09	20.3	21.9	—	11.6	—	2.0	15.1	28.7	2,930	4.4	450	0.84 1.32
DID C2060H DID C2062H	38.10	12.70	11.91 22.23	5.96	28.7	30.1	—	15.8	—	3.2	17.2	40.2	4,100	6.47	660	1.45 2.17
DID C2080H DID C2082H	50.80	15.88	15.88 28.58	7.94	35.9	—	38.7	—	20.6	4.0	23.3	68.6	7,000	11.2	1,150	2.46 3.53
DID C2100H DID C2102H	63.50	19.05	19.05 39.68	9.54	42.7	—	45.8	—	24.4	4.8	28.8	112	11,500	18.6	1,900	3.60 5.81
DID C2120H DID C2122H	76.20	25.40	22.23 44.45	11.11	53.2	—	56.5	—	29.9	5.6	33.8	156	16,000	25.5	2,600	5.09 8.09
DID C2160H DID C2162H	101.60	31.75	28.58 57.15	14.29	67.0	—	71.6	—	38.2	7.1	47.4	259	26,500	42.1	4,300	8.91 13.60

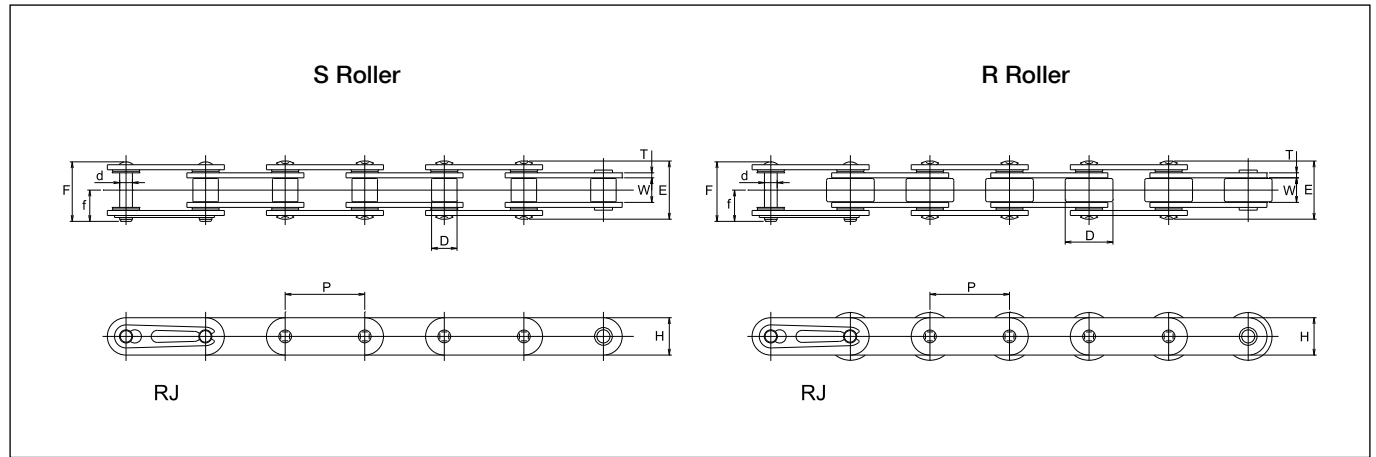
Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

• Dimensions of attachment

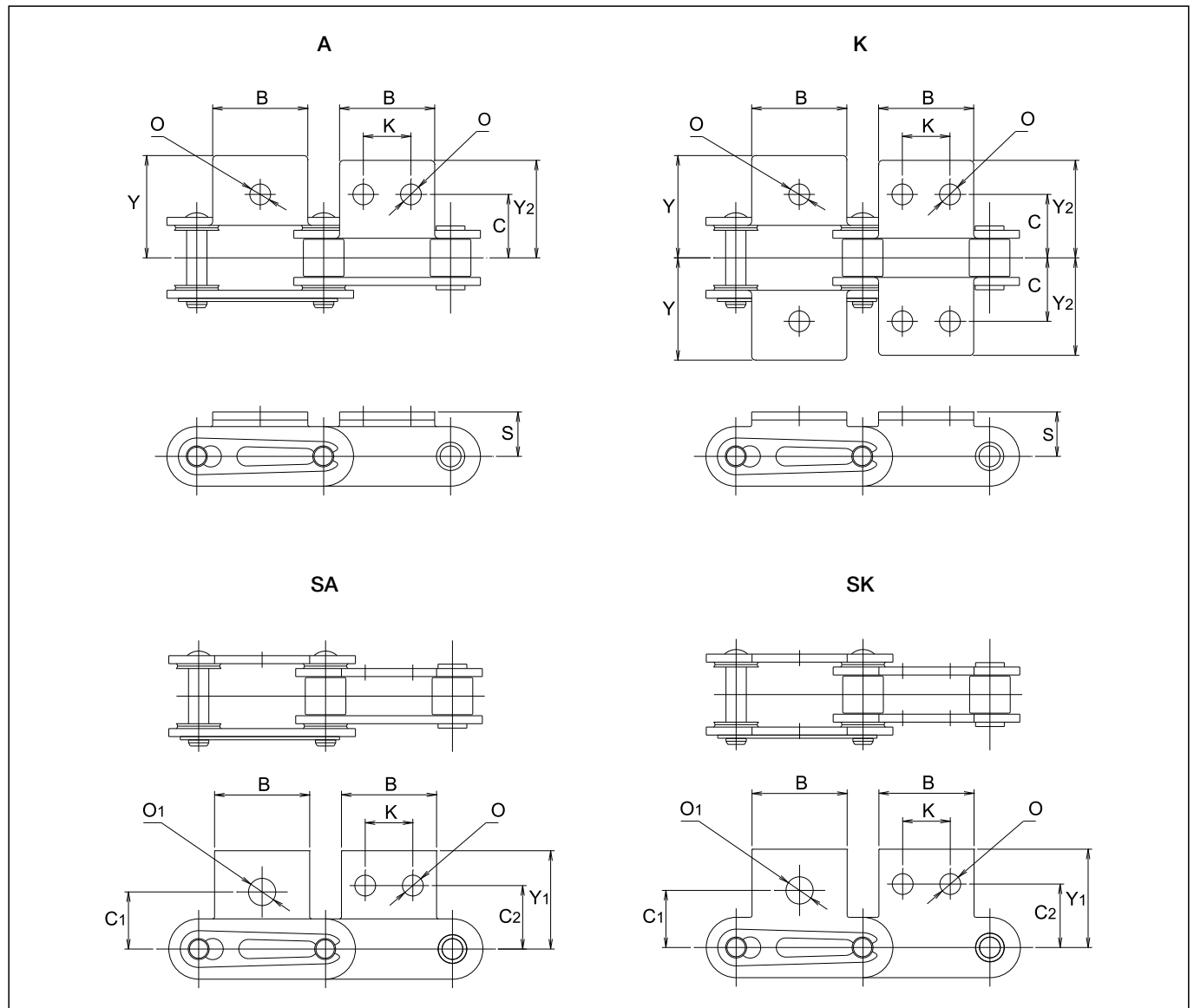
Chain No.	Pitch P	A, K				SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
		C	Y	Y₂	S	C₁	C₂	Y₁	O₁	K	B	O	A,SA	K,SK
DID C2040 DID C2042	25.40	12.70	19.4	19.4	9.13	11.11	13.50	19.8	5.2	9.53	19.1	3.5	0.003	0.006
DID C2050 DID C2052	31.75	15.88	24.4	24.4	11.11	14.29	15.88	24.6	6.8	11.91	23.8	5.2	0.006	0.012
DID C2060H DID C2062H	38.10	21.43	33.3	33.3	14.68	17.46	19.05	30.6	8.7	14.29	28.6	5.2	0.016	0.032
DID C2080H DID C2082H	50.80	27.78	40.8	36.6	19.05	22.23	25.40	40.5	10.3	19.05	38.1	6.8	0.034	0.068
DID C2100H DID C2102H	63.50	33.34	51.6	46.6	23.42	28.58	31.75	50.4	14.3	23.81	47.6	8.7	0.064	0.128
DID C2120H DID C2122H	76.20	39.69	62.9	57.1	27.78	33.34	37.31	59.9	16.0	28.58	57.1	10.3	0.108	0.216
DID C2160H DID C2162H	101.60	52.39	79.0	71.6	36.51	44.45	50.80	78.6	22.0	38.10	76.2	14.3	0.246	0.492

Note: Attachments with one hole are indicated as SA1, SK1, A1, K1, and those with two holes are indicated as SA2, SK2, A2, K2.

Chain



Attachment



Small Conveyor Chains

Double Pitch



Dimensions of O-ring Chain (Double pitch)

• Dimensions of Chain

Chain No.		Pitch P	Roller link width W	Roller (bush) dia. D	Pin				Plate		Avg. tensile strength		Max. allowable load		Approx. weight without attachments (kg/m)
Standard	Nickel plated				d	E	F	f	T	H	kN	kgf	kN	kgf	
DIDC2040LX	DIDC2040LXN	25.40	7.95	7.92	3.97	20.0	20.0	10.7	1.5	11.7	16.2	1,650	2.64	270	0.52
DIDC2042LX	DIDC2042LXN			15.88											0.89
DIDC2050LX	DIDC2050LXN	31.75	9.53	10.16	5.09	23.4	23.9	12.8	2.0	15.1	27.5	2,800	4.4	450	0.87
DIDC2052LX	DIDC2052LXN			19.05											1.35
DIDC2060HLX	DIDC2060HLXN	38.10	12.70	11.91	5.96	32.6	33.0	17.5	3.2	17.2	38.2	3,900	6.47	660	1.46
DIDC2062HLX	DIDC2062HLXN			22.23											2.18

Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

• Dimensions of attachment

Chain No.		Pitch P	A, K			SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
Standard	Nickel plated		C	Y	S	Y₁	C₁	C₂	O₁	B	K	O	A,SA	K,SK
DIDC2040LX	DIDC2040LXN	25.40	12.70	20.6	9.13	19.8	11.11	13.50	5.2	19.1	9.53	3.5	0.003	0.006
DIDC2042LX	DIDC2042LXN													
DIDC2050LX	DIDC2050LXN	31.75	15.88	25.6	11.11	24.6	14.29	15.88	6.8	23.8	11.91	5.2	0.006	0.012
DIDC2052LX	DIDC2052LXN													
DIDC2060HLX	DIDC2060HLXN	38.10	21.43	34.7	14.68	30.6	17.46	19.05	8.7	28.6	14.29	5.2	0.016	0.032
DIDC2062HLX	DIDC2062HLXN													

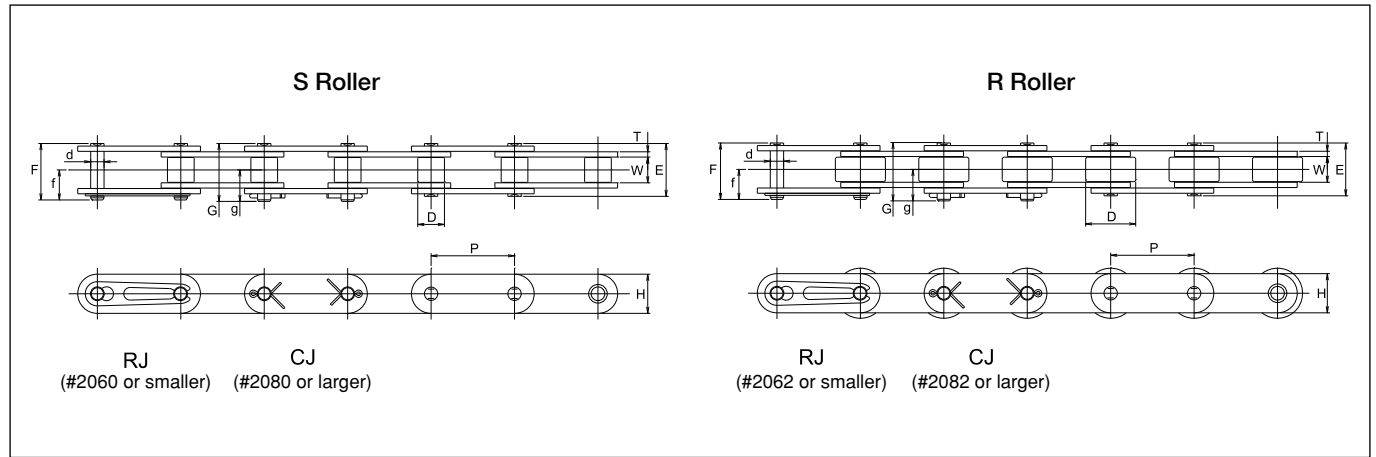
• Dimensions of Chain

Chain No.		Pitch P	Roller link width W	Roller (bush) dia. D	Pin				Plate		Avg. tensile strength		Max. allowable load		Approx. weight without attachments (kg/m)
Standard	Nickel plated				d	E	F	f	T	H	kN	kgf	kN	kgf	
DIDC2040LF	DIDC2040LFN	25.40	7.95	7.92	3.97	16.5	17.6	9.5	1.25	11.7	16.2	1,650	2.64	270	0.43
DIDC2042LF	DIDC2042LFN			15.88											0.8
DIDC2050LF	DIDC2050LFN	31.75	9.53	10.16	5.09	20.3	21.9	11.6	1.5	15.1	27.5	2,800	4.4	450	0.7
DIDC2052LF	DIDC2052LFN			19.05											1.18

• Dimensions of attachment

Chain No.		Pitch P	A, K			SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
Standard	Nickel plated		C	Y	S	Y₁	C₁	C₂	O₁	B	K	O	A,SA	K,SK
DIDC2040LF	DIDC2040LFN	25.40	12.70	19.4	9.13	19.8	11.11	13.50	5.2	19.1	9.53	3.5	0.003	0.006
DIDC2042LF	DIDC2042LFN													
DIDC2050LF	DIDC2050LFN	31.75	15.88	24.4	11.11	24.6	14.29	15.88	6.8	23.8	11.91	5.2	0.006	0.012
DIDC2052LF	DIDC2052LFN													

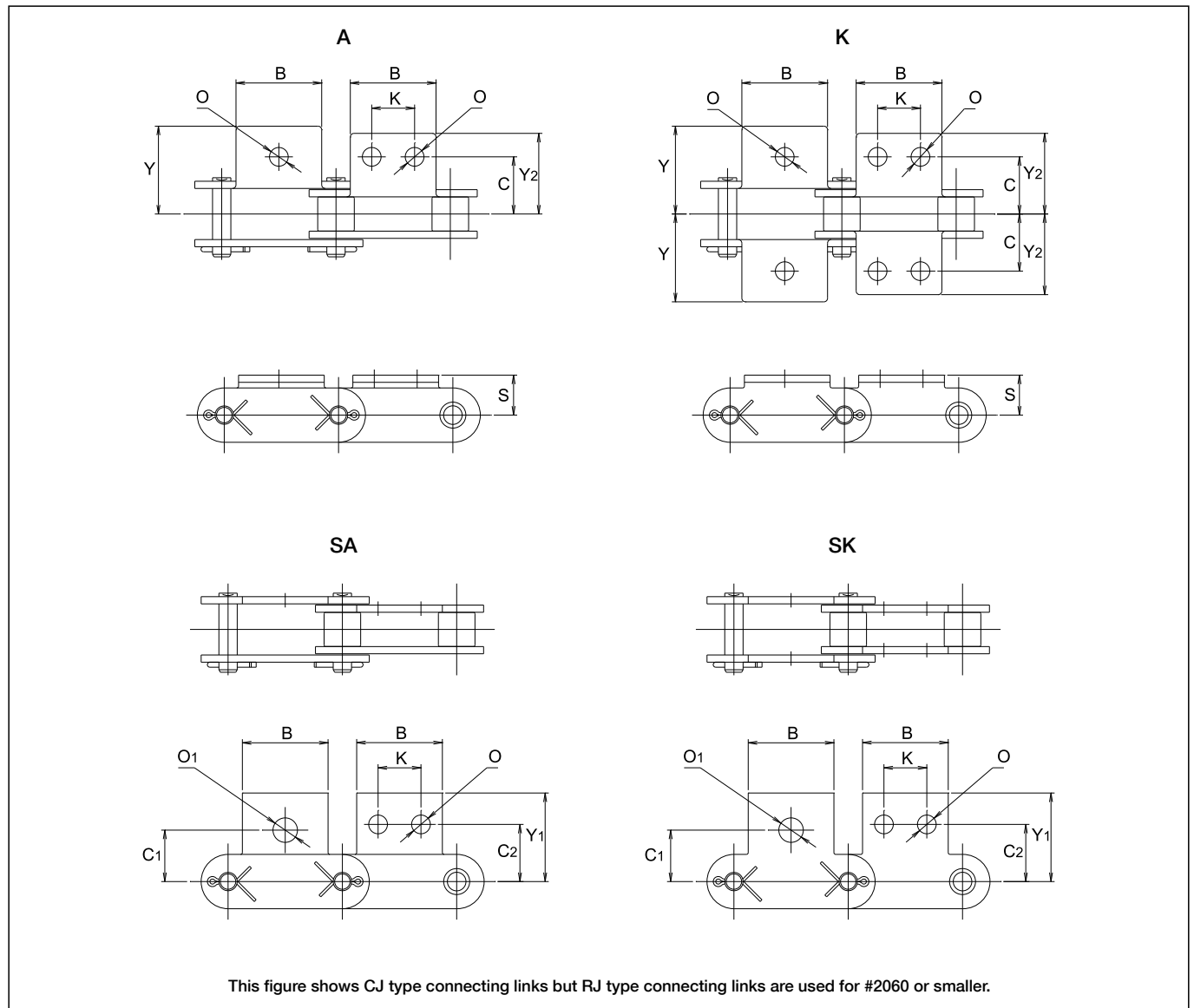
Chain



Small Conveyor Chains

Double Pitch

Attachment





Dimensions of Sintered Bushing Roller Chain (Double pitch)

• Dimensions of Chain

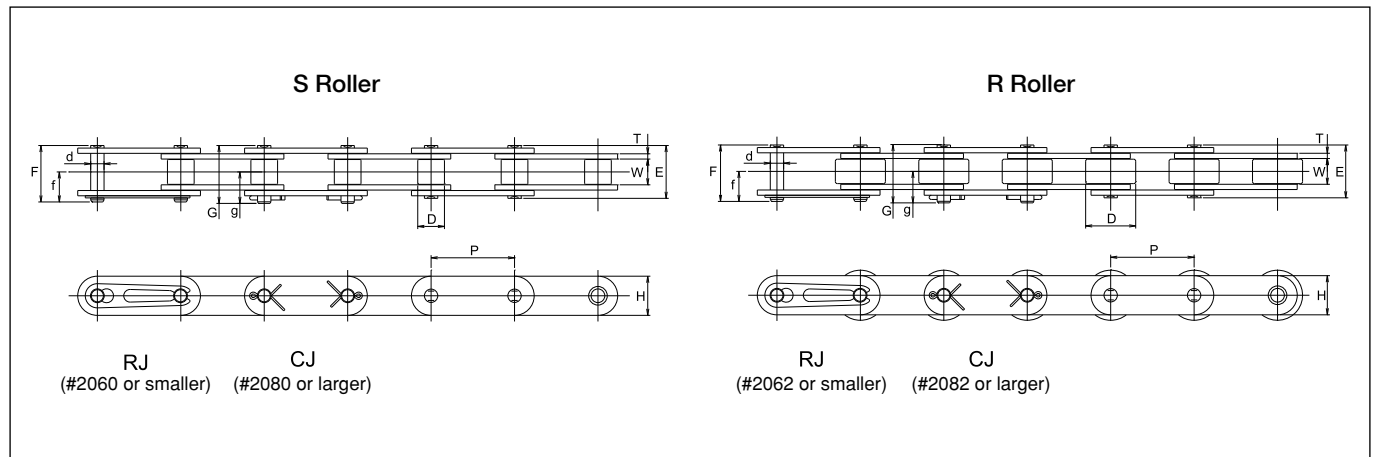
Chain No.		Pitch P	Roller link width W	Roller (bush) dia. D	Pin						Plate		Avg. tensile strength		Max. allowable load		Approx. weight without attachments (kg/m)
Standard	Rustless				d	E	F	G	f	g	T	H	kN	kgf	kN	kgf	
DIDC2040UR	DIDC2040URN	25.40	7.95	7.92	3.97	16.5	17.6	—	9.5	—	1.5	11.7	15.7	1,590	2.64	270	0.49
DIDC2042UR	DIDC2042URN			15.88													0.86
DIDC2050UR	DIDC2050URN	31.75	9.53	10.16	5.09	20.3	21.9	—	11.6	—	2.0	15.1	25.5	2,590	4.31	440	0.84
DIDC2052UR	DIDC2052URN			19.05													1.32
DIDC2060HUR	DIDC2060HURN	38.10	12.70	11.91	5.96	28.7	30.1	—	15.8	—	3.2	17.2	37.3	3,790	6.27	640	1.45
DIDC2062HUR	DIDC2062HURN			22.23													2.17
DIDC2080HUR	DIDC2080HURN	50.80	15.88	15.88	7.94	35.9	—	38.7	—	20.6	4.0	23.3	68.6	6,960	10.7	1,090	2.46
DIDC2082HUR	DIDC2082HURN			28.58													3.53

Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

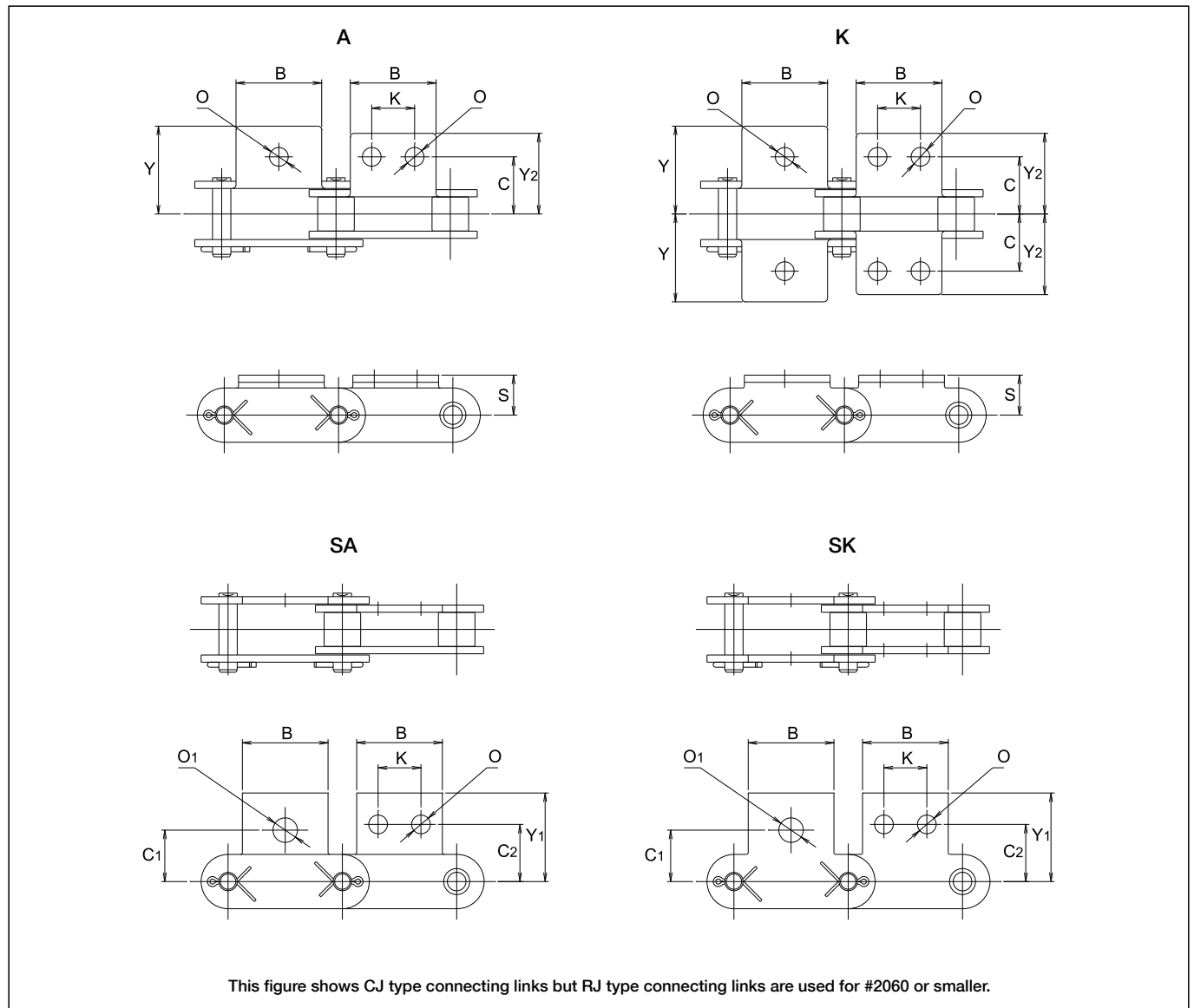
• Dimensions of attachment

Chain No.		Pitch P	A, K				SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
Standard	Rustless		C	Y	Y₂	S	C₁	C₂	Y₁	O₁	K	B	O	A,SA	K,SK
DIDC2040UR	DIDC2040URN	25.40	12.70	19.4	19.4	9.13	11.11	13.50	19.8	5.2	9.53	19.1	3.5	0.003	0.006
DIDC2042UR	DIDC2042URN														
DIDC2050UR	DIDC2050URN	31.75	15.88	24.4	24.4	11.11	14.29	15.88	24.6	6.8	11.91	23.8	5.2	0.006	0.012
DIDC2052UR	DIDC2052URN														
DIDC2060HUR	DIDC2060HURN	38.10	21.43	33.3	33.3	14.68	17.46	19.05	30.6	8.7	14.29	28.6	5.2	0.016	0.032
DIDC2062HUR	DIDC2062HURN														
DIDC2080HUR	DIDC2080HURN	50.80	27.78	40.8	36.6	19.05	22.23	25.40	40.5	10.3	19.05	38.1	6.8	0.034	0.068
DIDC2082HUR	DIDC2082HURN														

Chain



Attachment



Small Conveyor Chains

Double Pitch



Dimensions of Nickel Plated Chain (Double pitch)

• 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		Approx. weight without attachments (kg/m)
				d	E	F	G	f	g	T	H	kN	kgf	kN	kgf	
DID C2040N DID C2042N	25.40	7.95	7.92 15.88	3.97	16.5	17.6	—	9.5	—	1.5	11.7	17.0	1,740	2.64	270	0.49 0.86
DID C2050N DID C2052N	31.75	9.53	10.16 19.05	5.09	20.3	21.9	—	11.6	—	2.0	15.1	28.7	2,930	4.4	450	0.84 1.32
DID C2060HN DID C2062HN	38.10	12.70	11.91 22.23	5.96	28.7	30.1	—	15.8	—	3.2	17.2	40.2	4,100	6.47	660	1.45 2.17
DID C2080HN DID C2082HN	50.80	15.88	15.88 28.58	7.94	35.9	—	38.7	—	20.6	4.0	23.3	68.6	7,000	11.2	1,150	2.46 3.53
DID C2100HN DID C2102HN	63.50	19.05	19.05 39.68	9.54	42.7	—	45.8	—	24.4	4.8	28.8	112	11,500	18.6	1,900	3.60 5.81
DID C2120HN DID C2122HN	76.20	25.40	22.23 44.45	11.11	53.2	—	56.5	—	29.9	5.6	33.8	156	16,000	25.5	2,600	5.09 8.09
DID C2160HN DID C2162HN	101.60	31.75	28.58 57.15	14.29	67.0	—	71.6	—	38.2	7.1	47.4	259	26,500	42.1	4,300	8.91 13.60

Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

• Dimensions of attachment

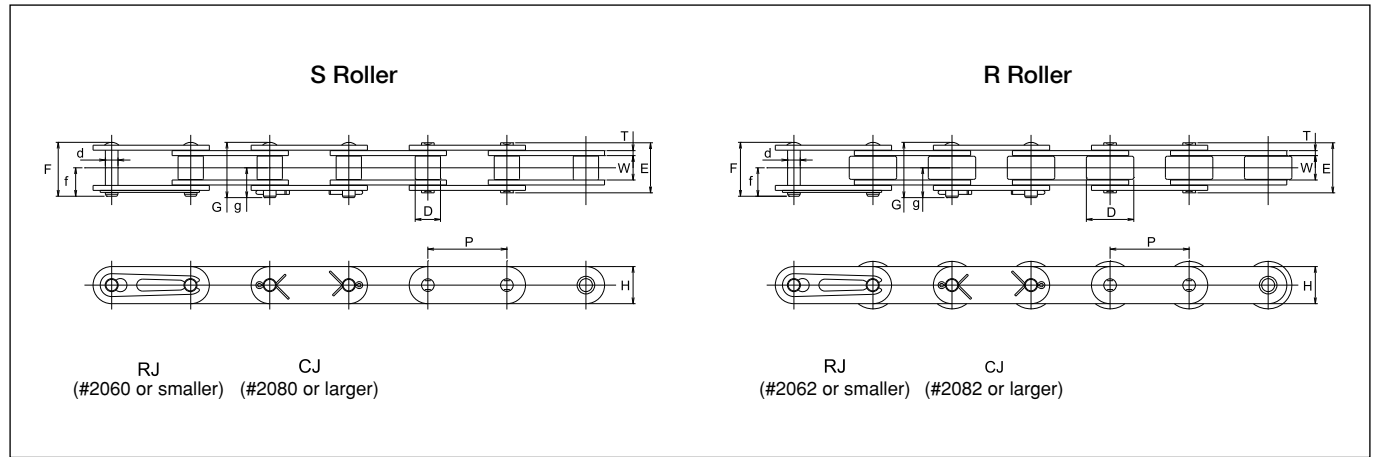
Chain No.	Pitch P	A, K				SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
		C	Y	Y₂	S	C₁	C₂	Y₁	O₁	K	B	O	A,SA	K,SK
DID C2040N DID C2042N	25.40	12.70	19.4	19.4	9.13	11.11	13.50	19.8	5.2	9.53	19.1	3.5	0.003	0.006
DID C2050N DID C2052N	31.75	15.88	24.4	24.4	11.11	14.29	15.88	24.6	6.8	11.91	23.8	5.2	0.006	0.012
DID C2060HN DID C2062HN	38.10	21.43	33.3	33.3	14.68	17.46	19.05	30.6	8.7	14.29	28.6	5.2	0.016	0.032
DID C2080HN DID C2082HN	50.80	27.78	40.8	36.6	19.05	22.23	25.40	40.5	10.3	19.05	38.1	6.8	0.034	0.068
DID C2100HN DID C2102HN	63.50	33.34	51.6	46.6	23.42	28.58	31.75	50.4	14.3	23.81	47.6	8.7	0.064	0.128
DID C2120HN DID C2122HN	76.20	39.69	62.9	57.1	27.78	33.34	37.31	59.9	16.0	28.58	57.1	10.3	0.108	0.216
DID C2160HN DID C2162HN	101.60	52.39	79.0	71.6	36.51	44.45	50.80	78.6	22.0	38.10	76.2	14.3	0.246	0.492

Note: 1. Attachments with one hole are indicated as SA1, SK1, A1, K1, and those with two holes are indicated as SA2, SK2, A2, K2.

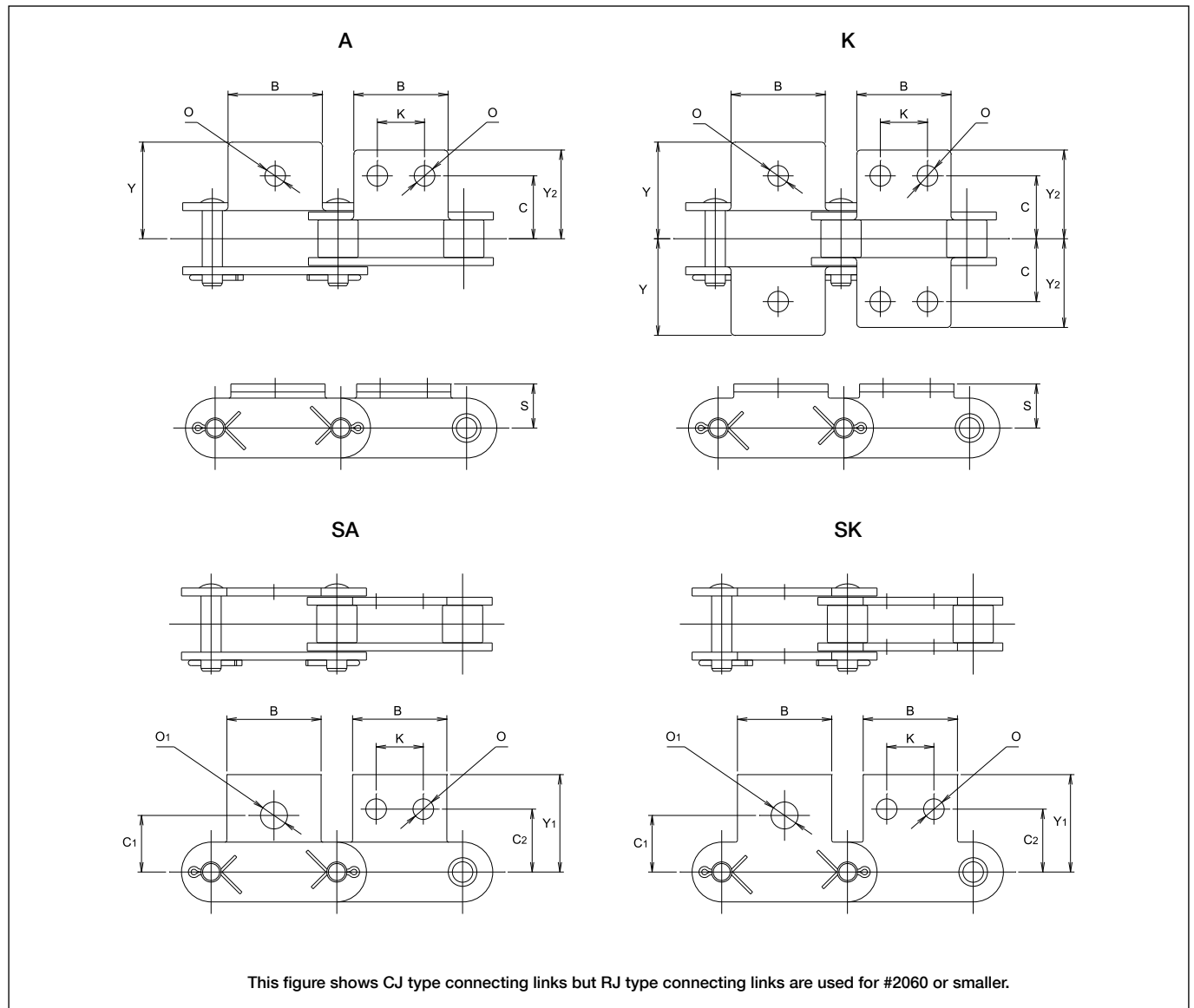
2. Specify the intervals between the attachments when ordering.

3. Unless otherwise specified, the attachments are attached to the outer links of even numbers.

Chain



Attachment



Small Conveyor Chains

Double Pitch



Dimensions of High Guard Chain (Double pitch)

• Dimensions of Chain

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Pin						Plate		Avg. tensile strength		Max. allowable load		Approx. weight without attachments (kg/m)
				d	E	F	G	f	g	T	H	kN	kgf	kN	kgf	
				Unit (mm)												
DID C2040E DID C2042E	25.40	7.95	7.92 15.88	3.97	16.5	17.6	—	9.5	—	1.5	11.7	17.0	1,740	2.64	270	0.49 0.86
DID C2050E DID C2052E	31.75	9.53	10.16 19.05	5.09	20.3	21.9	—	11.6	—	2.0	15.1	28.7	2,930	4.4	450	0.84 1.32
DID C2060HE DID C2062HE	38.10	12.70	11.91 22.23	5.96	28.7	30.1	—	15.8	—	3.2	17.2	40.2	4,100	6.47	660	1.45 2.17
DID C2080HE DID C2082HE	50.80	15.88	15.88 28.58	7.94	35.9	—	38.7	—	20.6	4.0	23.3	68.6	7,000	11.2	1,150	2.46 3.53
DID C2100HE DID C2102HE	63.50	19.05	19.05 39.68	9.54	42.7	—	45.8	—	24.4	4.8	28.8	112	11,500	18.6	1,900	3.60 5.81
DID C2120HE DID C2122HE	76.20	25.40	22.23 44.45	11.11	53.2	—	56.5	—	29.9	5.6	33.8	156	16,000	25.5	2,600	5.09 8.09
DID C2160HE DID C2162HE	101.60	31.75	28.58 57.15	14.29	67.0	—	71.6	—	38.2	7.1	47.4	259	26,500	42.1	4,300	8.91 13.60

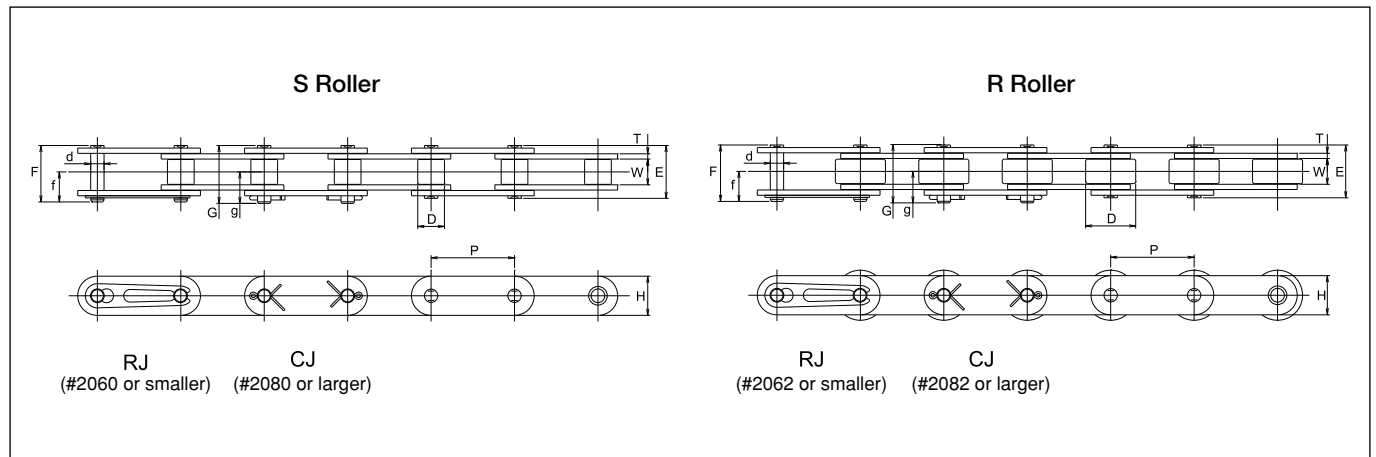
Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

• Dimensions of attachment

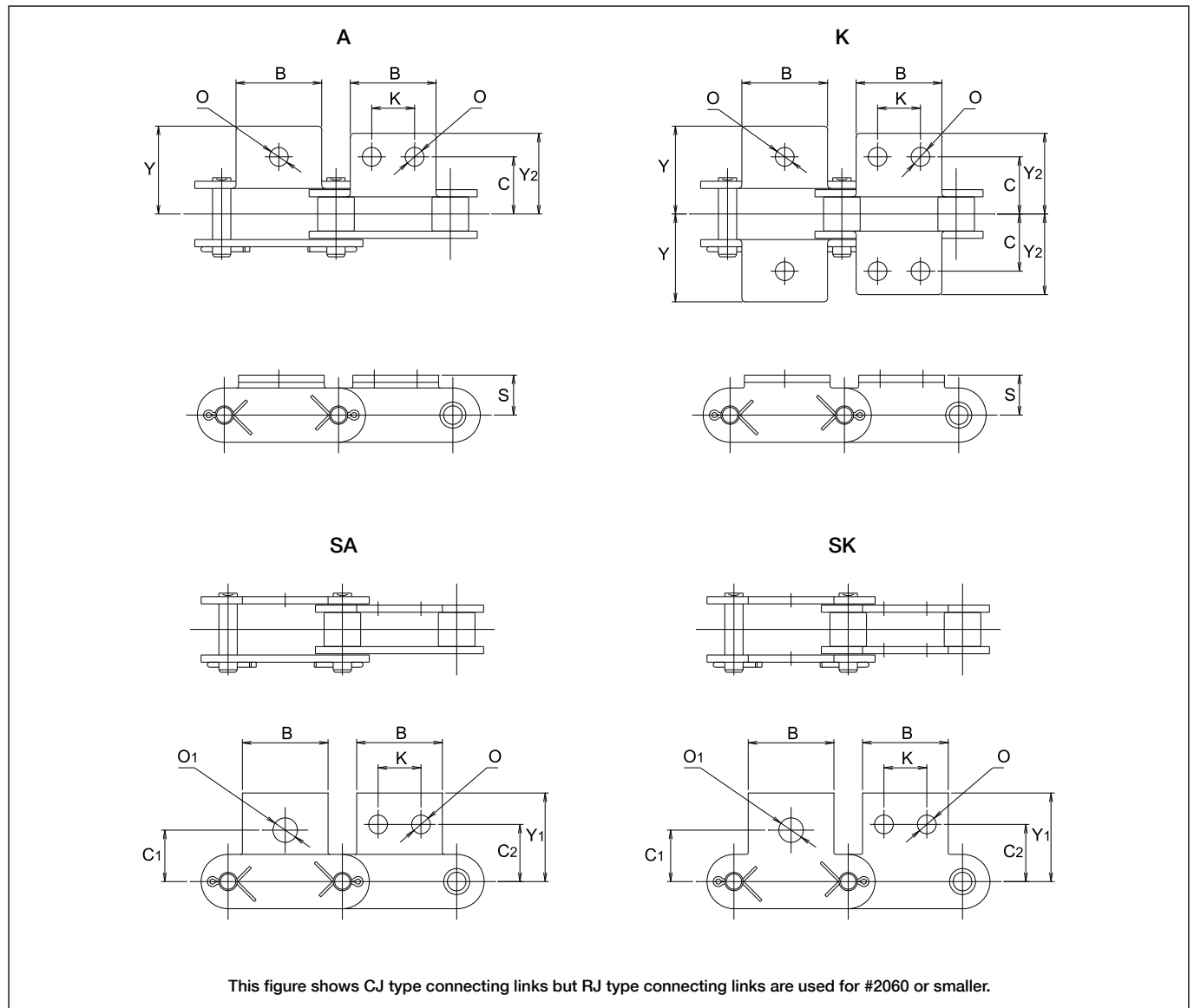
Chain No.	Pitch P	A, K				SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
		C	Y	Y₂	S	C₁	C₂	Y₁	O₁	K	B	O	A,SA	K,SK
DID C2040E DID C2042E	25.40	12.70	19.4	19.4	9.13	11.11	13.50	19.8	5.2	9.53	19.1	3.5	0.003	0.006
DID C2050E DID C2052E	31.75	15.88	24.4	24.4	11.11	14.29	15.88	24.6	6.8	11.91	23.8	5.2	0.006	0.012
DID C2060HE DID C2062HE	38.10	21.43	33.3	33.3	14.68	17.46	19.05	30.6	8.7	14.29	28.6	5.2	0.016	0.032
DID C2080HE DID C2082HE	50.80	27.78	40.8	36.6	19.05	22.23	25.40	40.5	10.3	19.05	38.1	6.8	0.034	0.068
DID C2100HE DID C2102HE	63.50	33.34	51.6	46.6	23.42	28.58	31.75	50.4	14.3	23.81	47.6	8.7	0.064	0.128
DID C2120HE DID C2122HE	76.20	39.69	62.9	57.1	27.78	33.34	37.31	59.9	16.0	28.58	57.1	10.3	0.108	0.216
DID C2160HE DID C2162HE	101.60	52.39	79.0	71.6	36.51	44.45	50.80	78.6	22.0	38.10	76.2	14.3	0.246	0.492

- Note: 1. Attachments with one hole are indicated as SA1, SK1, A1, K1, and those with two holes are indicated as SA2, SK2, A2, K2.
 2. Specify the intervals between the attachments when ordering.
 3. Unless otherwise specified, the attachments are attached to the outer links of even numbers.

Chain



Attachment



Small Conveyor Chains

Double Pitch



Dimensions of Double Guard Chain (Double pitch)

• Dimensions of Chain

Chain No.	Pitch P	Roller link width W	Roller (bush) dia. D	Pin						Plate		Avg. tensile strength		Max. allowable load		Approx. weight without attachments (kg/m)
				d	E	F	G	f	g	T	H	kN	kgf	kN	kgf	
				Unit (mm)												
DID C2040WG DID C2042WG	25.40	7.95	7.92 15.88	3.97	16.5	17.6	—	9.5	—	1.5	11.7	17.0	1,740	2.64	270	0.49 0.86
DID C2050WG DID C2052WG	31.75	9.53	10.16 19.05	5.09	20.3	21.9	—	11.6	—	2.0	15.1	28.7	2,930	4.4	450	0.84 1.32
DID C2060HWG DID C2062HWG	38.10	12.70	11.91 22.23	5.96	28.7	30.1	—	15.8	—	3.2	17.2	40.2	4,100	6.47	660	1.45 2.17
DID C2080HWG DID C2082HWG	50.80	15.88	15.88 28.58	7.94	35.9	—	38.7	—	20.6	4.0	23.3	68.6	7,000	11.2	1,150	2.46 3.53

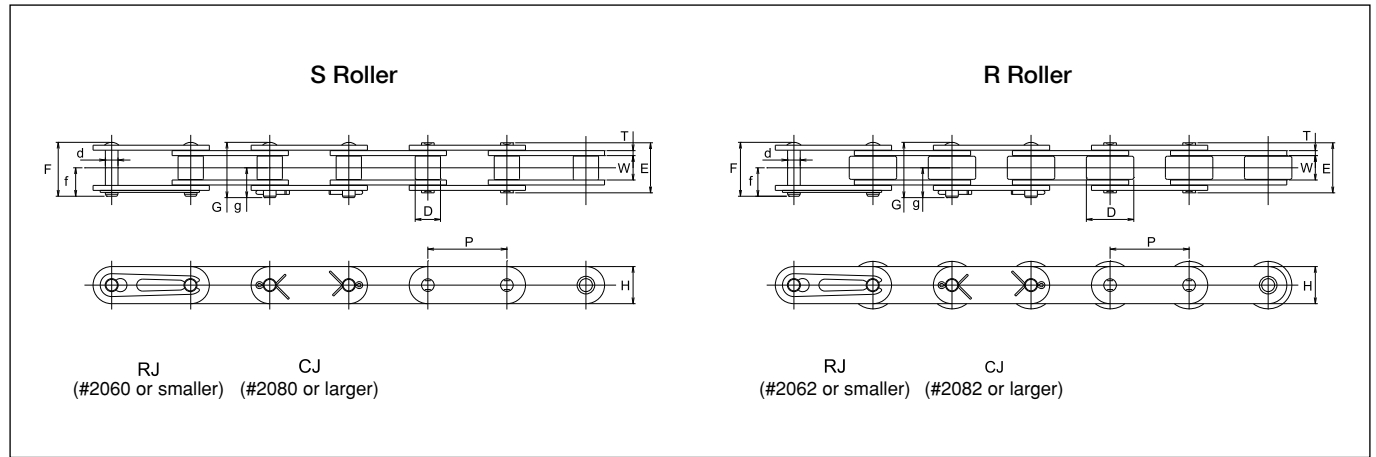
Note: 1. The values of the Avg. tensile strength and max. allowable load are for the chains (attachments aren't included).
2. Consult us for the sizes other than the above.

• Dimensions of attachment

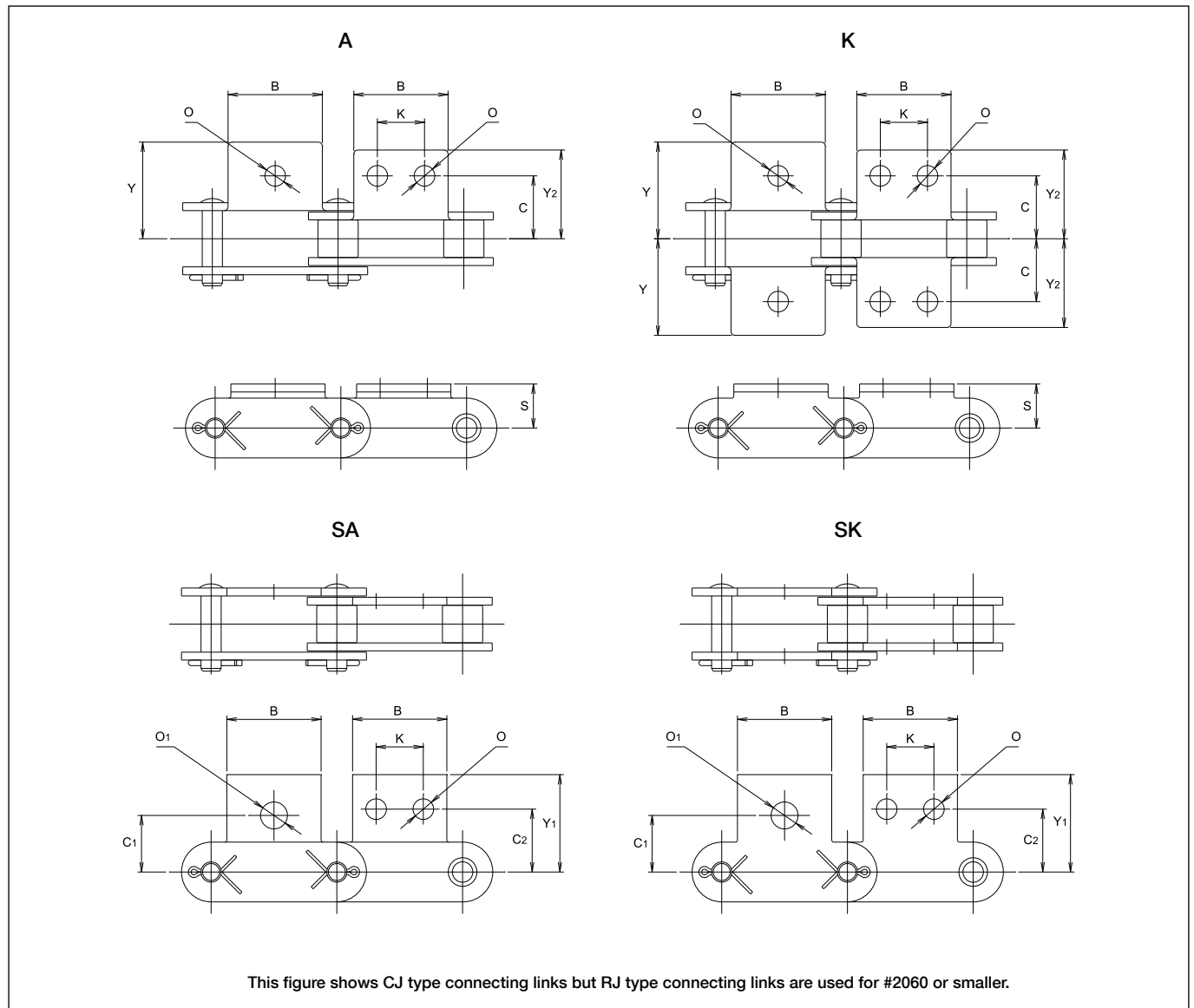
Chain No.	Pitch P	A, K				SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
		C	Y	Y₂	S	C₁	C₂	Y₁	O₁	K	B	O	A,SA	K,SK
DID C2040WG DID C2042WG	25.40	12.70	19.4	19.4	9.13	11.11	13.50	19.8	5.2	9.53	19.1	3.5	0.003	0.006
DID C2050WG DID C2052WG	31.75	15.88	24.4	24.4	11.11	14.29	15.88	24.6	6.8	11.91	23.8	5.2	0.006	0.012
DID C2060HWG DID C2062HWG	38.10	21.43	33.3	33.3	14.68	17.46	19.05	30.6	8.7	14.29	28.6	5.2	0.016	0.032
DID C2080HWG DID C2082HWG	50.80	27.78	40.8	36.6	19.05	22.23	25.40	40.5	10.3	19.05	38.1	6.8	0.034	0.068

Note: 1. Attachments with one hole are indicated as SA1, SK1, A1, K1, and those with two holes are indicated as SA2, SK2, A2, K2.
2. Specify the intervals between the attachments when ordering.
3. Unless otherwise specified, the attachments are attached to the outer links of even numbers.

Chain



Attachment





Dimensions of Stainless Steel Chain (Double pitch)

• 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				Approx. weight without attachments (kg/m)
				d	E	F	G	f	g	T	H	kN	kgf	SS		SSK		
														kN	kgf	kN	kgf	
DID C2040SS,SSK DID C2042SS,SSK	25.40	7.95	7.92 15.88	3.97	16.15	17.65	18.35	9.58	10.28	1.5	11.7	13.3	1,350	0.44	40	0.68	70	0.49 0.83
DID C2050SS,SSK DID C2052SS,SSK	31.75	9.53	10.16 19.05	5.09	20.40	21.80	22.30	11.60	12.15	2.0	14.6	20.9	2,120	0.69	70	1.03	100	0.83 1.28
DID C2060HSS,SSK DID C2062HSS,SSK	38.10	12.70	11.91 22.23	5.96	28.70	30.20	31.40	15.85	17.05	3.2	17.5	30.0	3,050	1.03	100	1.57	160	1.46 2.14
DID C2080HSS,SSK DID C2082HSS,SSK	50.80	15.88	15.88 28.58	7.94	35.60	—	38.70	—	20.90	4.0	23.0	53.4	5,420	1.77	180	2.65	270	2.44 3.50

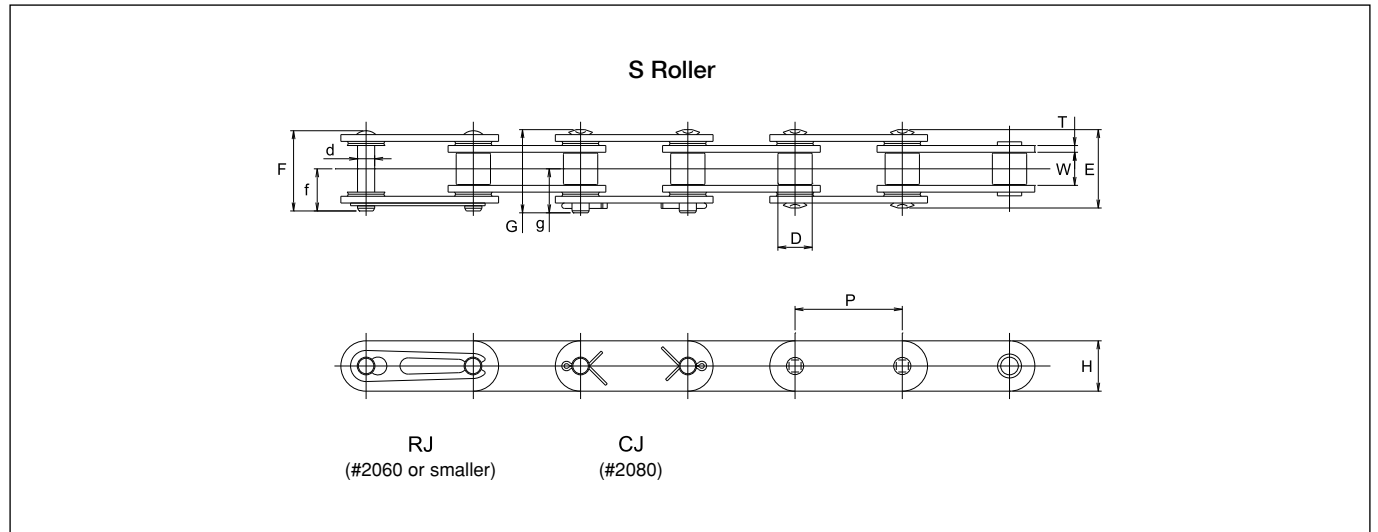
Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

• Dimensions of attachment

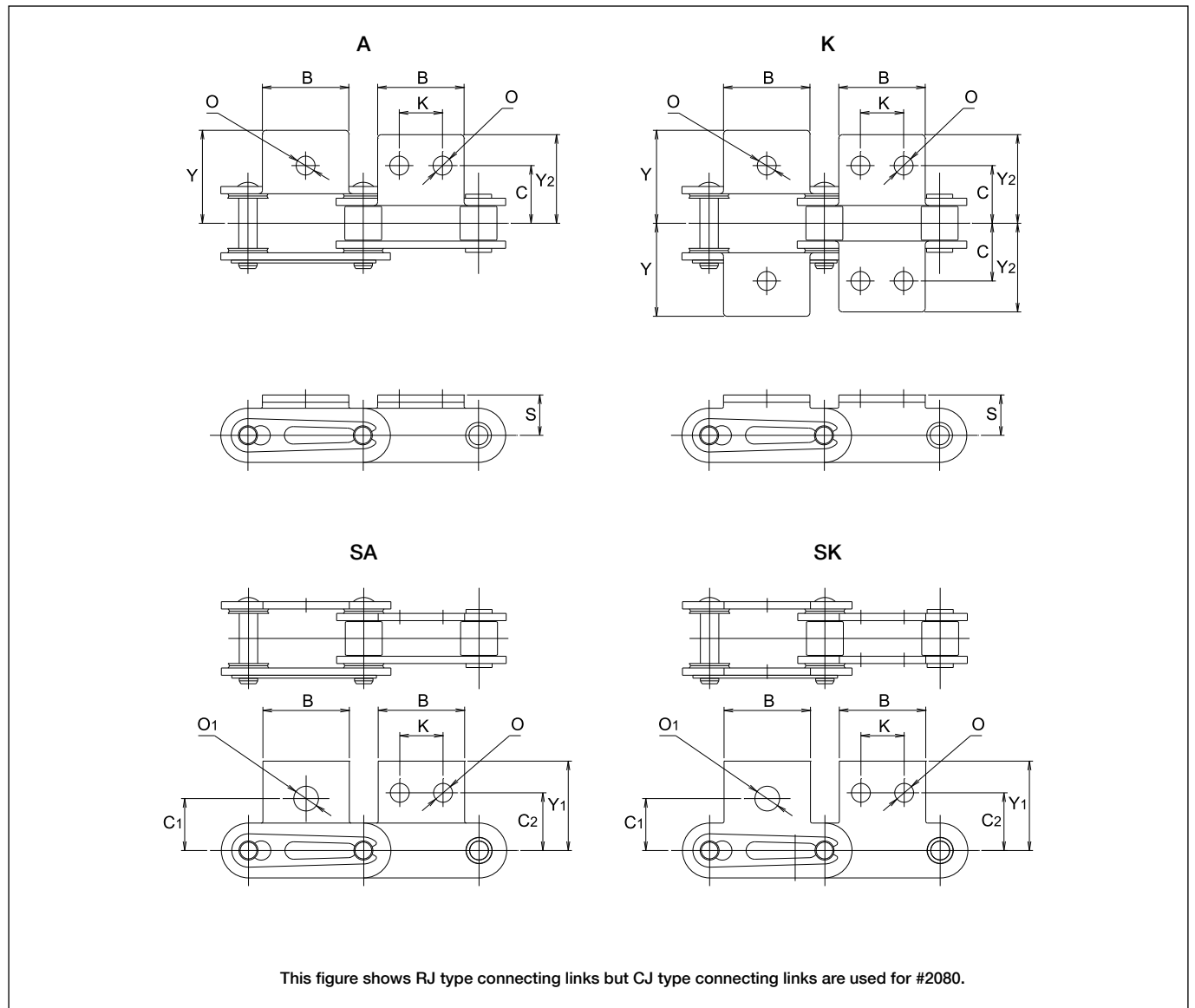
Chain No.	Pitch P	A, K				SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
		C	Y	Y₂	S	C₁	C₂	Y₁	O₁	K	B	O	A,SA	K,SK
DID C2040SS,SSK DID C2042SS,SSK	25.40	12.70	19.0	17.4	9.1	11.11	13.5	19.75	5.2	9.53	19.1	3.6	0.003	0.006
DID C2050SS,SSK DID C2052SS,SSK	31.75	15.88	24.0	21.9	11.1	14.3	15.9	24.55	6.8	11.91	23.8	5.2	0.007	0.014
DID C2060HSS,SSK DID C2062HSS,SSK	38.10	21.43	31.8	28.4	14.7	17.5	19.1	31.05	8.7	14.30	28.6	5.2	0.016	0.032
DID C2080HSS,SSK DID C2082HSS,SSK	50.80	27.78	41.1	37.0	19.1	22.2	25.4	40.80	10.3	19.05	38.1	6.8	0.033	0.066

Note: 1. Attachments with one hole are indicated as SA1, SK1, A1, K1, and those with two holes are indicated as SA2, SK2, A2, K2.
 2. Specify the intervals between the attachments when ordering.
 3. Unless otherwise specified, the attachments are attached to the outer links of even numbers.

Chain



Attachment



Small Conveyor Chains

Double Pitch



Dimensions of Stainless Steel X-Ring Chain (Double pitch)

• 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		Approx. weight without attachments (kg/m)
				d	E	F	G	f	g	T	H	kN	kgf	kN	kgf	
DID C2040SSLT	25.40	7.95	7.92	3.96	20	20.3	—	10.7	—	1.5	11.7	13.3	1,360	0.44	45	0.55
DID C2050SSLT	31.75	9.53	10.16	5.08	23.4	24.3	—	12.8	—	2.0	14.6	20.8	2,130	0.69	70	0.71
DID C2060HSSLT	38.10	12.70	11.91	5.95	32.6	33.2	—	17.2	—	3.2	17.5	31.0	3,170	1.03	110	1.53
DID C2080HSSLT	50.80	15.88	15.88	7.93	39.7	—	42.4	—	22.5	4.0	23.0	55.8	5,700	1.77	180	2.52

Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

• Dimensions of attachment

Chain No.	Pitch P	A, K				SA, SK				Common dimensions			Approx. additional weight per attachment (kg)	
		C	Y	Y₂	S	C₁	C₂	Y₁	O₁	K	B	O	A,SA	K,SK
DID C2040SSLT	25.40	12.70	20.2	17.4	9.1	11.1	13.5	19.8	5.2	9.53	19.1	3.6	0.003	0.006
DID C2050SSLT	31.75	15.88	25.1	21.8	11.1	14.3	15.9	24.6	6.8	11.91	23.8	5.2	0.007	0.014
DID C2060HSSLT	38.10	21.43	33.2	28.4	14.7	17.5	19.1	31.1	8.7	14.30	28.6	5.2	0.016	0.032
DID C2080HSSLT	50.80	27.7	42.7	36.8	19.1	22.2	25.4	40.8	10.3	19.05	38.1	6.8	0.033	0.066

Note: 1. Attachments with one hole are indicated as SA1, SK1, A1, K1, and those with two holes are indicated as SA2, SK2, A2, K2.

2. Specify the intervals between the attachments when ordering.

3. Unless otherwise specified, the attachments are attached to the outer links of even numbers.