



D.I.D.[®]

CATALOG

POWER TRANSMISSION & CONVEYOR CHAIN
PRODUCTS GUIDE

X-RING

最強。

X-Ring Chain.



DRIVEN TO SOLUTIONS The D.I.D Brand

Known for its **D**urability and Dependability **I**n **D**esign.
As established technical innovator in the world chain drive market, serving a
broad spectrum of industries with quality products for over 75 years.
That is **D.I.D.** Our technology turns timely ideas into productive realities.
D.I.D a professional partnership you can count on for your optimum drive
system solutions.

* * * INDEX * * *

Standard Roller Chain	2 – 5
Double Pitch Chain	6 – 7
BS (British Standard) Roller Chain	8
Leaf Chain	9
Roller Chain Coupling	10 – 11

D.I.D New Tech Chain Series

* Ultimate Life Chain Series (Digest)	12 – 15
* Environment Resistance Chain Series (Digest)	16 – 17
* Ultimate Power Chain Series (Digest)	18 – 19
How to Order Roller Chains	20
Chain Selection	21

DID is a brand you can depend on.

Certified Management System in Conformity with World Standards

Quality assurance and environmental management system authorized by domestic and overseas standards.

DID's Quality Assurance

- Customer satisfaction is our priority.
- All DAIDO members are committed to quality.
- Quality control based on facts is assured.

With activities based on these quality policies, our quality assurance system is internationally authorized to state that our products conform to the ISO9000 series and API.

Proud of
MADE IN JAPAN
Quality



ISO9001/2000 Certification

It is indispensable to obtain the certification of ISO9001/2000 for supplying products to overseas markets - not only Europe and the US but also other countries. Our entire production system, including design, development, manufacturing, installation and technical assistance for all of our products including various chains, conveyor systems and welfare equipment, has been certified by the Japan Quality Assurance Organization (JQA).



Authorization by API

The American oil industry applies rigid quality control standards to all mechanical parts used in oil field development and oil refining. The organization that examines the conformity with their standards for authorization is called API (American Petroleum Institute). Since receiving authorization from API in 1972, we have been supplying DID roller chains and sprockets to many companies not only in the USA but also all over the world under our rigid quality control system.



ISO14001 Certification

ISO14001 was established in 1996 by the International Organization for Standardization, to set requirements for environmental management systems. In order to preserve the global environment, reverse contamination and enhance the health of human beings and ecosystems, DAIDO declared our policies for environmental preservation. As a result, our management system for our activities, products and service for environmental protection was certified by the organization. We have been engaged in various activities for environmental preservation and improvement, such as reduction of waste and classification of waste for recycling, in accordance with our environmental policies.

Worldwide standard chains complying with ISO and ANSI

The 14 sizes of DID standard roller chains are available ranging from DID25 to DID240 including those in conformity with ANSI (American National Standard Institute), and ISO (International Organization for Standardization).

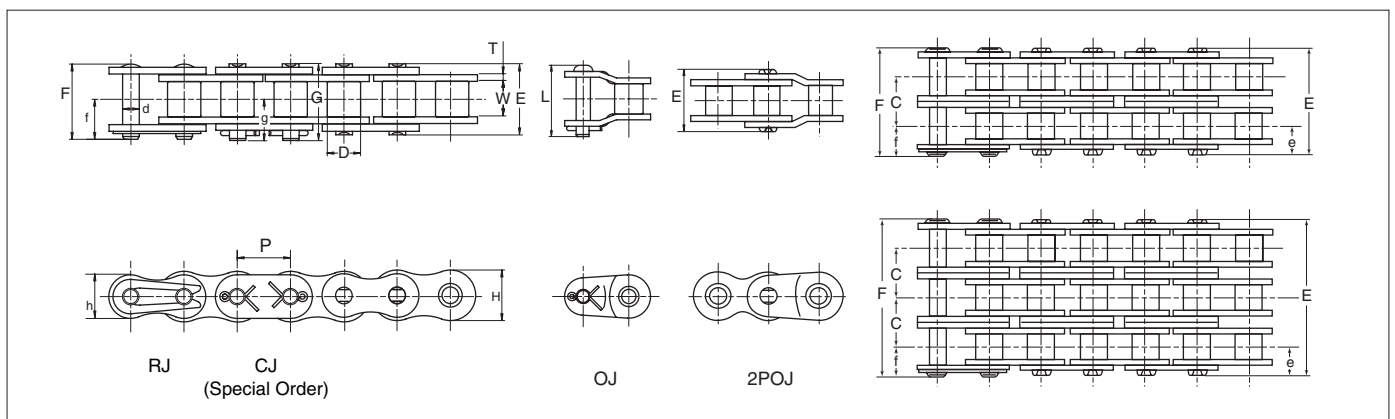
The chains not only meet the requirements for the minimum tensile strength prescribed by ANSI and ISO, but they also provide the top class quality in the world including a high fatigue strength.

Suitable uses

- General use for driving and lifting equipment.

Examples

- Driving transfer units and other equipment.



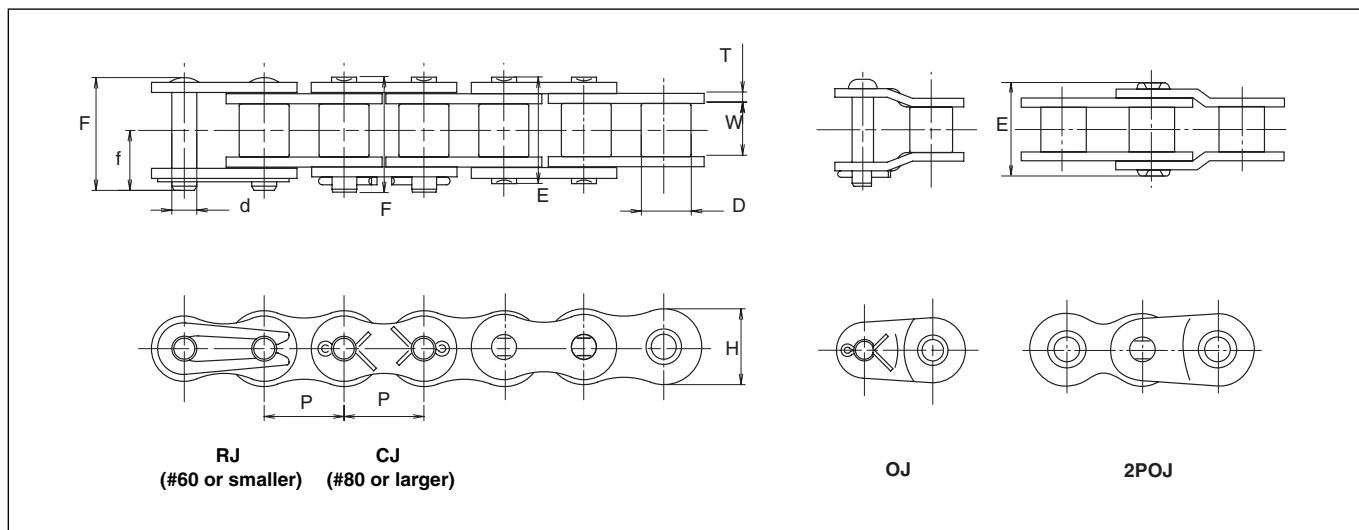
Standard Roller Chain



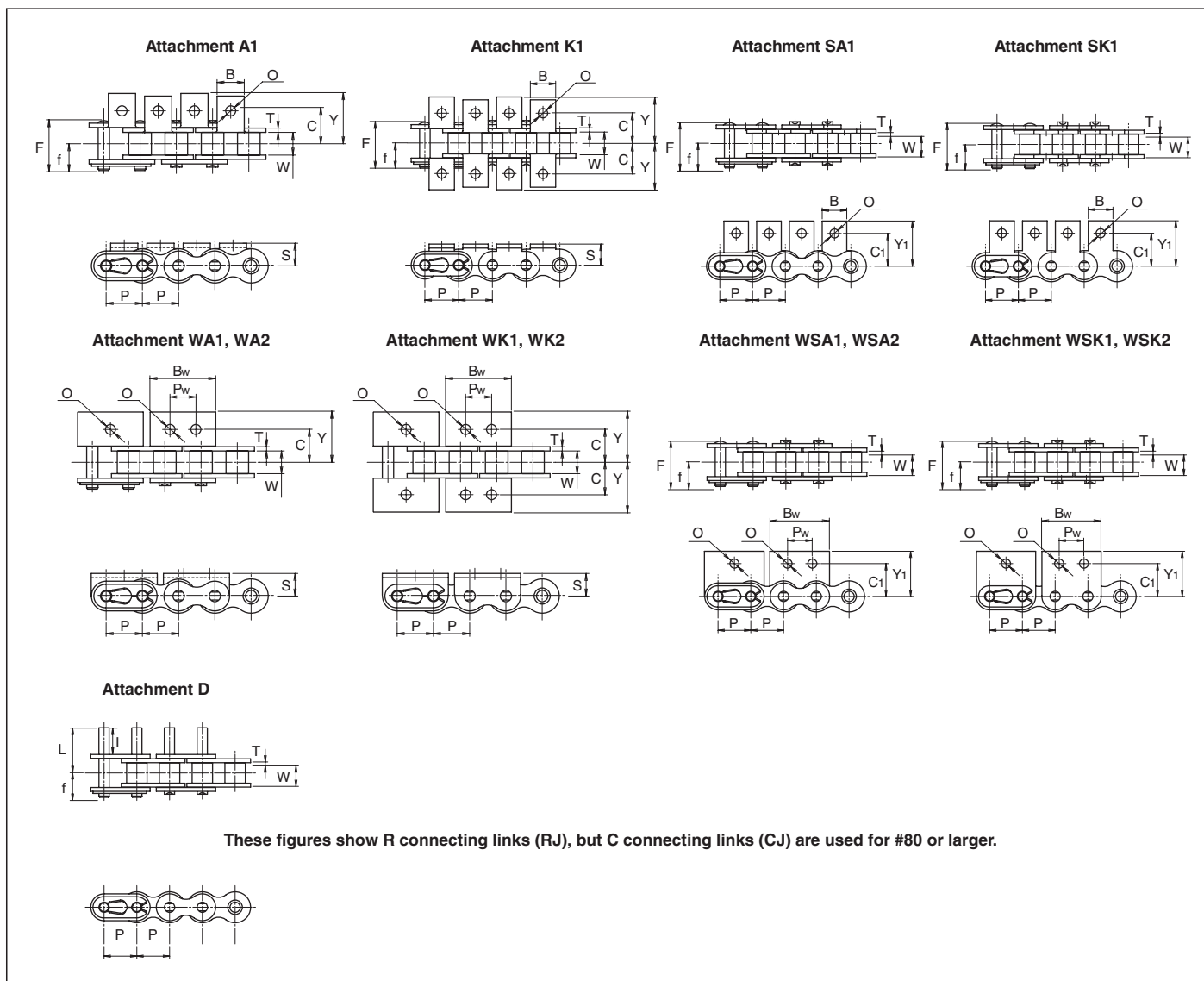
Dimensions

Chain No.		Pitch	Roller link width	Bush dia.	Pin									Transverse pitch	Plate			JIS Min. tensile strength	DID Min. tensile strength	DID Avg. tensile strength	DID Max. allowable load
DID	JIS				P	W	D	d	E	F	G	L	e		f	l	g				
DID25	**	6.35	3.18	3.30	2.31	7.8	8.5			3.9	4.7			6.4	0.72	5.9	5.2	3.6	3.63	4.41	0.73
DID25-2	**					14.4	15.0											7.2	7.26	8.82	1.17
DID25-3	**					20.8	21.4											10.8	10.89	13.20	1.76
DID25H	**					9.00	9.45													5.88	1.07
DID35	35	9.525	4.78	5.08	3.59	12.0	13.1	14.1		6.0	7.3		7.4	10.1	1.25	9.0	7.75	8.7	8.83	11.2	2.15
DID35-2	35-2					22.1	23.2	23.5										17.4	17.66	22.5	3.62
DID35-3	35-3					32.2	33.4	33.7										26.1	26.49	33.8	5.39
DID41	41	12.70	6.38	7.77	3.59	13.7	14.6		15.3	6.9	7.9	8.5			1.20	9.6	8.0	7.40	8.83	10.7	2.35
DID40	40	12.70	7.95	7.92	3.97	16.5	17.6	18.1	19.1	8.3	9.5		10.1	14.4	1.50	12.0	10.4	15.2	15.69	19.1	3.72
DID40-2	40-2					31.0	32.1	32.6	33.6									30.4	31.38	38.2	6.27
DID40-3	40-3					45.4	46.4	47.0	47.9									45.6	47.07	57.3	9.31
DID40-4	40-4					59.9	61.0	61.4	61.4									66.8	62.76	76.4	12.2
DID40-5	40-5					74.3	75.4	75.8	75.8									76.0	78.45	95.6	14.5
DID50	50	15.875	9.53	10.16	5.09	20.3	21.9	22.1	23.2	10.2	11.6		121.1	18.1	2.00	15.0	13.0	24	26.48	30.8	6.86
DID50-2	50-2					38.5	40.1	40.3	41.3									48	52.96	61.7	11.6
DID50-3	50-3					56.7	58.3	58.5	59.5									72	79.44	92.6	17.1
DID50-4	50-4					74.8	76.4	76.6	76.6									96	105.9	123	22.6
DID50-5	50-5					93.0	94.5	94.7	94.7									120	132.4	155	26.7
DID60	60	19.05	12.70	11.91	5.96	25.4	26.9	27.9	29.8	12.7	14.3		15.1	22.8	2.40	18.1	15.6	34.2	35.30	44.1	9.31
DID60-2	60-2					48.3	49.8	50.9	52.5									68.4	70.60	88.2	15.7
DID60-3	60-3					71.2	72.7	73.7	75.3									102.6	105.9	132	23.2
DID60-4	60-4					94.0	95.5	96.5	96.5									136.8	141.2	176	30.6
DID60-5	60-5					116.8	118.8	119.3	119.3									171.0	176.5	220	36.2
DID80	80	25.40	15.88	7.94	5.96	32.5		35.5	37.1	16.3			19.25	29.3	3.20	24.1	20.8	61.2	71.59	78.4	14.7
DID80-2	80-2					61.8		64.7	66.3									122.4	143.1	156	25
DID80-3	80-3					91.3		94.0	95.1									183.6	214.7	235	36.7
DID80-4	80-4					120.6		123.3	124.4									244.8	286.3	313	48.5
DID80-5	80-5					149.9		152.6	153.7									306.0	357.9	392	57.3
DID100	100	31.75	19.05	19.05	9.54	39.5		42.6	45.2	19.8			22.8	35.8	4.0	30.1	26.0	95.4	107.0	118	22.5
DID100-2	100-2					75.4		78.3	81.1									190.8	215.7	237	38.3
DID100-3	100-3					111.2		114.2	115.2									286.2	323.6	355	56.3
DID100-4	100-4					147.0		150.0	151.0									381.6	431.4	474	74.4
DID100-5	100-5					182.9		185.9	186.9									477.0	539.3	593	87.9
DID120	120	38.10	25.40	22.23	11.11	49.8		53.8	56.1	24.9			28.9	45.4	4.80	36.2	31.2	137.1	147.1	166	30.4
DID120-2	120-2					75.4		79.2	99.6									274.2	294.2	333	51.6
DID120-3	120-3					140.6		143.9	145.0									411.3	441.3	500	76
DID120-4	120-4					186.1		189.4	190.5									548.4	588.4	666	100
DID120-5	120-5					231.5		234.8	235.9									685.5	735.5	833	118
DID140	140	44.45	25.40	25.40	12.71	53.6		58.4	59.6	26.8			31.7	48.9	5.60	41.9	36.3	185.9	193.1	215	40.2
DID140-2	140-2					102.6		107.4	108.6									371.8	386.3	431	68.3
DID140-3	140-3					151.5		156.3	157.5									557.7	579.5	647	100
DID140-4	140-4					200.5		205.3	206.5									743.6	772.7	862	132
DID140-5	140-5					249.4		254.2	255.4									929.5	965.9	1,070	156
DID160	160	50.80	31.75	28.58	14.29	63.6		68.2	69.7	31.9			36.5	58.5	6.40	47.8	41.4	244.6	245.1	269	52.9
DID160-2	160-2					122.2		126.8	128.3									489.2	490.3	539	90.9
DID160-3	160-3					180.8		185.4	186.9									733.8	735.5	809	132
DID160-4	160-4					239.3		243.8	245.4									978.4	980.6	1,070	178
DID160-5	160-5					297.8		303.4	303.9									1,223.0	1,225	1,340	206
DID180	180	57.15	35.72	35.71	17.46	71.5		77.3	79.3	35.8			41.6	65.8	7.10	53.8	46.6	308.2	333.4	362	61.7
DID180-2	180-2					137.4		143.2	145.2									616.4	666.8	725	105
DID180-3	180-3					203.3		209.1	211.1									924.6	1,000	1,088	154
DID180-4	180-4					269.1		274.9	276.9									1,232.8	1,333	1,451	203
DID180-5	180-5					334.9		340.7	342.7									1,541	1,667	1,814	240
DID200	200	63.50	38.1	39.68	19.85	77.9		85.0	87.3	39.0				71.6	8.00	60.0	52.0	381.7	431.4	470	73.5
DID200-2	200-2					149.6		156.6	159.0									763.4	862.9	941	125
DID200-3	200-3					221.3		228.3	230.6									1,145.1	1,294	1,412	183
DID200-4	200-4					292.9		299.9	302.2									1,526.8	1,725	1,882	242
DID200-5	200-5					364.5		371.5	373.8									1,908.5	2,157	2,353	286
DID240	240	76.20	47.63	47.63	23.81	95.2		102.9	105.4	47.7			55.3	87.8	9.50	71.5	62.0	550.4	622.7	686	99
DID240-2	240-2					183.1		190.8	193.3									1,100.8	1,245	1,370	168
DID240-3	240-3					270.9		278.6	281.1									1,651.2	1,868	2,050	247
DID240-4	240-4					358.7		366.4	368.9									2,201.6	2,490	2,740	326
DID240-5	240-5					446.5		454.2	456.7									2,752	3,113	3,430	386

Chain Body



Attachment



Standard Roller Chain (with Attachment)



Dimensions of Chain Bodies

Unit (mm)

Chain No.	Pitch	Roller link width	Roller (bushing) dia.	Pin				Plate		Avg. tensile strength	Max. allowable load	Approx. weight without attachments (kg/m)
	P	W	D	d	E	F	f	T	H	kN	kN	
* DID 25	6.35	3.18	(3.30)	2.31	7.8	8.50	4.7	0.72	5.9	4.02	0.63	0.13
* DID 35	9.525	4.78	(5.08)	3.59	12.0	13.1	7.3	1.25	9.0	9.31	1.47	0.32
DID 41	12.70	6.38	7.77	3.59	13.7	14.6	7.9	1.20	9.6	10.1	1.67	0.39
DID 40	12.70	7.95	7.92	3.97	16.5	17.6	9.5	1.50	12.0	16.6	2.64	0.63
DID 50	15.875	9.53	10.16	5.09	20.3	21.9	11.6	2.00	15.0	27.9	4.41	1.06
DID 60	19.05	12.70	11.91	5.96	25.4	26.9	14.3	2.40	18.1	40.2	6.37	1.44
DID 80	25.40	15.88	15.88	7.94	32.6	35.4	19.0	3.20	24.0	78.4	10.7	2.55
DID 100	31.75	19.05	19.05	9.54	39.5	42.5	22.7	4.00	29.9	118	17.1	3.79
DID 120	38.10	25.40	22.23	11.11	49.7	53.0	28.2	4.80	35.9	166	24.5	5.49
DID 140	44.45	25.40	25.40	12.71	53.6	58.4	31.7	5.60	41.9	215	32.3	7.11
DID 160	50.80	31.75	28.58	14.29	63.6	68.2	36.5	6.40	47.8	269	41.2	9.82
DID 200	63.50	38.10	39.68	19.85	77.9	85.0	46.0	8.00	60.0	470	68.6	16.5

Dimensions of attachment

Chain No	Pitch	Attachment A1, K1			Attachment SA1, SK1		Common dimensions		Attachment D		Approx. additional weight per attachment (kg)		
	P	C	Y	S	C1	Y1	B	O	I	L	A,SA	K,SK	D
* DID 25	6.35	7.15	10.7	4.76	7.94	11.50	5.56	3.4	6.00	9.2	0.0003	0.0006	0.00002
* DID 35	9.525	9.52	14.4	6.35	9.52	14.70	7.94	3.5	9.52	14.6	0.001	0.002	0.0009
DID 41	12.70	11.91	17.5	7.14	12.30	17.50	9.53	3.5	9.52	15.4	0.0015	0.003	0.0009
DID 40	12.70	12.70	17.6	7.92	12.70	17.50	9.53	3.5	9.52	16.8	0.002	0.004	0.001
DID 50	15.875	15.88	23.0	10.31	15.88	22.60	12.70	5.2	11.91	21.0	0.003	0.006	0.002
DID 60	19.05	19.05	27.0	11.91	18.26	26.20	15.88	5.2	14.27	25.7	0.006	0.012	0.003
DID 80	25.40	25.40	34.9	15.88	24.61	34.05	19.05	6.8	19.05	33.9	0.011	0.022	0.007
DID 100	31.75	31.75	43.3	19.84	31.75	42.75	25.40	8.7	23.83	41.9	0.024	0.048	0.012
DID 120	38.10	38.10	53.2	23.01	36.53	50.30	28.58	10.3	28.58	51.4	0.037	0.074	0.02
DID 140	44.45	44.45	61.9	28.58	44.45	62.40	34.92	12.3	33.32	57.8	0.068	0.136	0.03
DID 160	50.80	50.80	69.9	31.75	50.80	68.10	38.10	14.3	38.10	67.4	0.091	0.182	0.045
DID 200	63.50	63.50	90.0	42.87	63.50	84.50	47.60	17.0	47.62	83.4	0.186	0.372	0.106

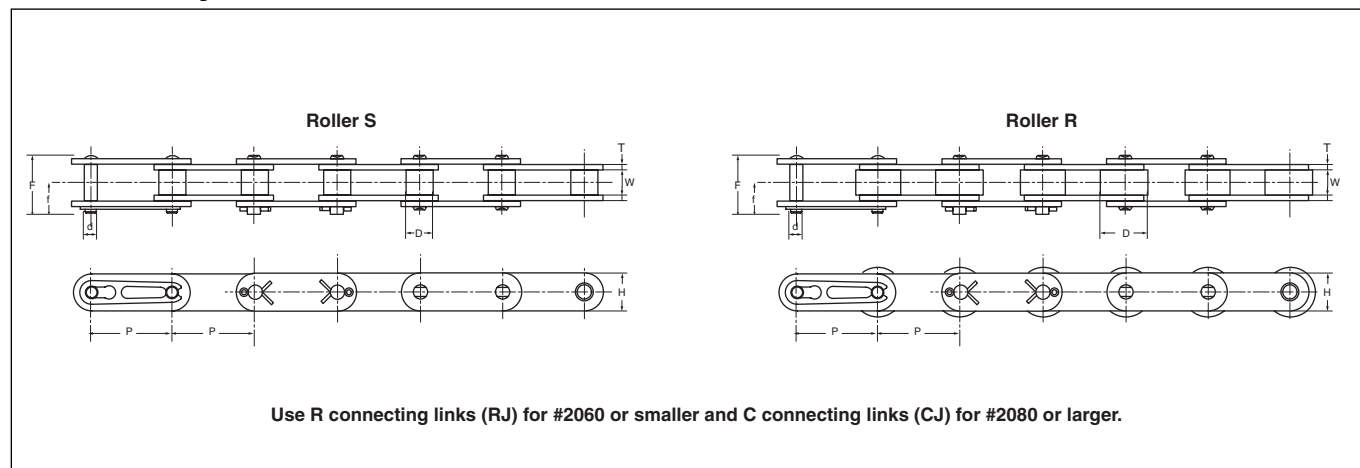
Dimensions of wide attachment

Chain No.	Pitch	Attachment WA1, WA2, WK1, WK2			Attachment WSA1, WSA2, WSK1, WSK2		Common dimensions			Approx. additional weight per attachment (kg)	
	P	C	Y	S	C1	Y1	O	Bw	Pw	WA,WSA	WK,WSK
DID 40	12.70	12.70	17.6	7.92	12.70	17.5	4.5	23.0	9.5	0.003	0.006
DID 50	15.875	15.88	23.0	10.31	15.88	22.6	5.5	28.8	11.9	0.007	0.014
DID 60	19.05	19.05	27.0	11.91	18.26	26.2	6.6	34.6	14.3	0.012	0.024
DID 80	25.40	25.40	34.9	15.88	24.61	34.1	9.0	46.1	19.1	0.026	0.052
DID 100	31.75	31.75	43.3	19.84	31.75	42.8	11.0	57.8	23.8	0.051	0.102

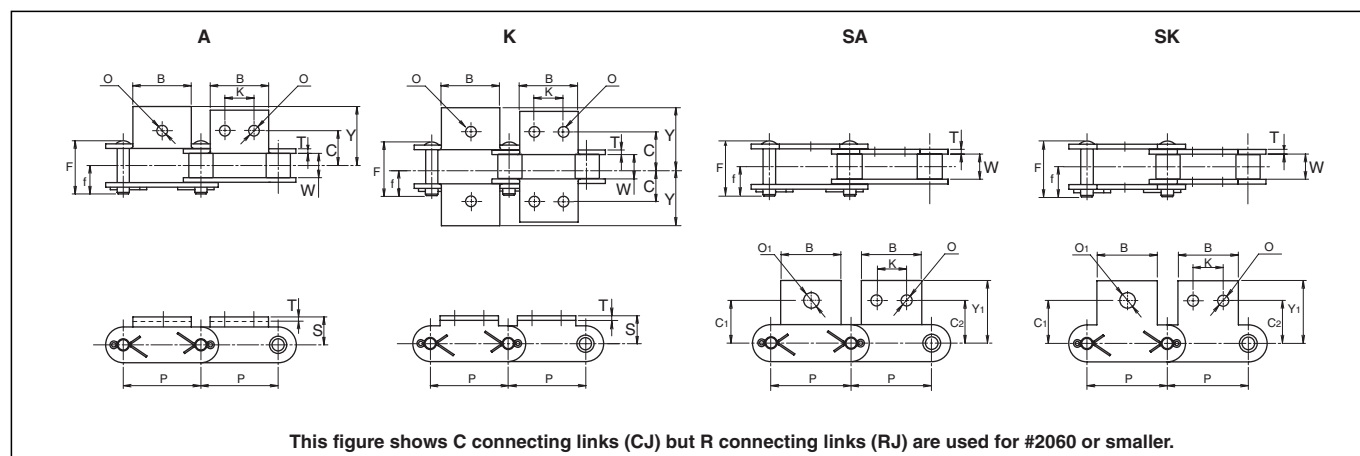
Note: 1. Those marked with * indicate Bushing Chain .

2. The values of the Avg. tensile strength and Max. allowable load are for the chain body (attachments aren't included).

Chain Body



Attachment



[Type indication]

Indicates that the thickness of plates is larger by one size, that is, equal to the thickness of the plates of DID100. If there is no symbol, the thickness is equal to the thickness of the plates of DID80.

DID C 2 082 H

082 indicates that the base is DID80, and that rollers with a large outer diameter (Roller R) are used. In the case of regular rollers, 080 is stated here.

Indicates that the chain is a double pitch chain.

Indicates that the chain is for a conveyor system.

Indication that the chain is a DAIDO product.

Double Pitch Chain (with Attachment)



Dimensions of Chain Bodies

Unit (mm)

Chain No.	Pitch	Roller link width	Roller (bush) dia.	Pin			Plate		Avg. tensile strength	Max. allowable load	Approx. weight without attachments (kg)
	P	W	D	d	F	f	T	H	kN	kN	
DID C2040	25.40	7.95	7.92	3.97	17.6	9.5	1.5	11.7	17.0	2.64	0.49
DID C2042			15.88								0.86
DID C2050	31.75	9.53	10.16	5.09	21.9	11.6	2.0	15.1	28.7	4.41	0.84
DID C2052			19.05								1.32
DID C2060H	38.10	12.70	11.91	5.96	30.1	16.1	3.2	17.2	40.2	6.47	1.45
DID C2062H			22.23								2.17
DID C2080H	50.80	15.88	15.88	7.94	38.7	20.6	4.0	23.3	68.6	11.2	2.46
DID C2082H			28.58								3.53
DID C2100H	63.50	19.05	19.05	9.54	45.8	24.4	4.8	28.8	112	18.6	3.60
DID C2102H			39.68								5.81
DID C2120H	76.20	25.40	22.23	11.11	56.5	29.9	5.6	33.8	156	25.5	5.09
DID C2122H			44.45								8.09
DID C2160H	101.60	31.75	28.58	14.29	71.6	38.2	7.1	47.4	259	42.1	8.91
DID C2162H			57.15								13.60

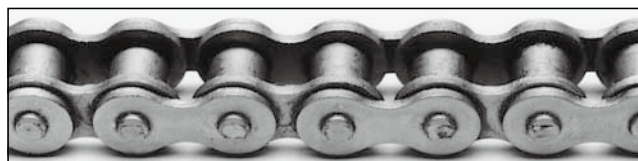
Note: The values of the avg. tensile strength and max. allowable load are for the chains (attachments aren't included).

Dimensions of attachment

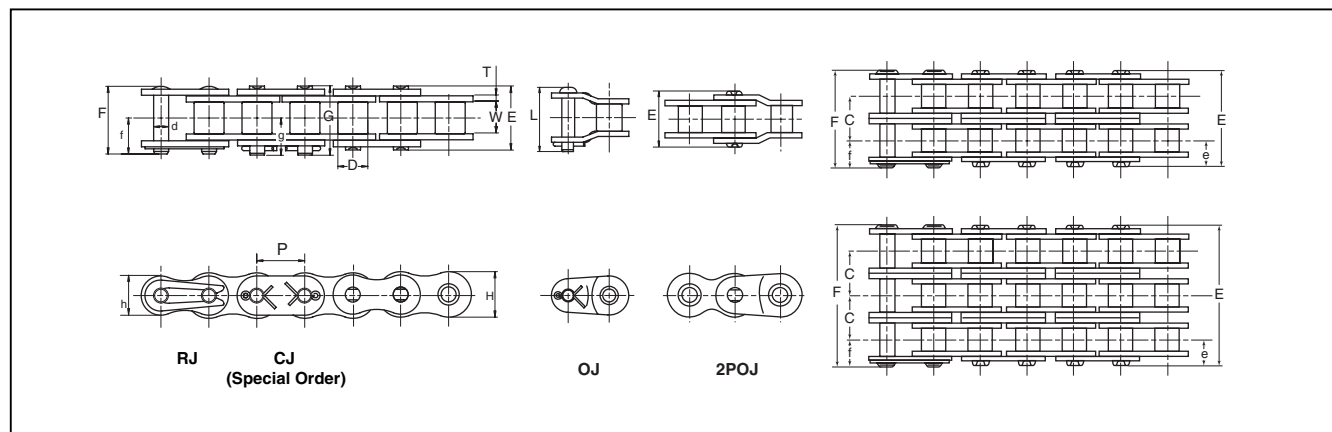
Chain No.	Pitch	Attachment											Approx. additional weight per attachment(kg)	
	P	S	C	Y	Y1	C1	C2	K	B	O	O1	T	A,SA	K,SK
DID C2040	25.40	9.13	12.70	19.4	19.8	11.11	13.50	9.53	19.1	3.5	5.2	1.5	0.003	0.006
DID C2042														
DID C2050	31.75	11.11	15.88	24.4	24.6	14.29	15.88	11.91	23.8	5.2	6.8	2.0	0.006	0.012
DID C2052														
DID C2060H	38.10	14.68	21.43	33.3	30.6	17.46	19.05	14.29	28.6	5.2	8.7	3.2	0.016	0.032
DID C2062H														
DID C2080H	50.80	19.05	27.78	40.8	40.5	22.23	25.40	19.05	38.1	6.8	10.3	4.0	0.034	0.068
DID C2082H														
DID C2100H	63.50	23.42	33.34	51.6	50.4	28.58	31.75	23.81	47.6	8.7	14.3	4.8	0.064	0.128
DID C2102H														
DID C2120H	76.20	27.78	39.69	62.9	59.9	33.34	37.31	28.58	57.1	10.3	16.0	5.6	0.108	0.216
DID C2122H														
DID C2160H	101.60	36.51	52.39	79.0	78.6	44.45	50.80	38.10	76.2	14.3	22.0	7.1	0.246	0.492
DID C2162H														

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

DID BS Roller Chains conform to the ISO (International Organization for Standardization) "B series", and they are manufactured in conformity with the British Standard or German Standard. For sprockets, use those in conformity with the BS standard.



Dimensional drawing



Dimensions

Unit (mm)

Chain No.		Pitch	Roller link width	Roller dia.	Pin						Transverse pitch	Plate				JIS Avg. tensile strength	DID Min. tensile strength	Approx. weight (kg/m)
DID	JIS B	P	W	D	d	E	F	G	f	g	C	T	t	H	h	kN	kN	
DID 04B	—	6.00	2.80	4.00	1.85	6.45	7.35	—	4.15	—	—	0.63	0.63	4.9	4.9	—	3.33	0.12
DID 05B	05B	—	—	—	—	7.60	8.60	—	—	—	—	—	—	—	—	4.4	5.68	0.18
DID 05B-2	05B-2	8.00	3.00	5.00	2.31	13.25	14.25	—	4.80	—	5.64	0.75	0.75	7.1	6.2	7.8	9.21	0.34
DID 06B	06B	—	—	—	—	13.15	13.6	—	—	—	—	—	—	—	—	8.9	10.4	0.39
DID 06B-2	06B-2	9.525	5.72	6.35	3.28	22.75	23.9	—	7.4	—	10.24	1.3	1.0	8.2	8.2	16.9	19.4	0.74
DID 06B-3	06B-3	—	—	—	—	33.0	34.3	—	—	—	—	—	—	—	—	24.9	27.4	1.10
DID 08B	08B	—	—	—	—	16.7	18.1	—	—	—	—	—	—	—	—	17.8	19.6	0.67
DID 08B-2	08B-2	12.70	7.75	8.51	4.45	30.7	32.0	—	9.9	—	13.92	1.5	1.5	11.9	10.4	31.1	34.3	1.30
DID 08B-3	08B-3	—	—	—	—	44.6	46.0	—	—	—	—	—	—	—	—	44.5	49.0	1.92
DID 10B	10B	—	—	—	—	18.9	20.4	—	—	—	—	—	—	—	—	22.2	25.4	0.86
DID 10B-2	10B-2	15.875	9.65	10.16	5.08	35.5	37.0	—	10.9	—	16.59	1.5	1.5	14.7	13.0	44.5	50.9	1.68
DID 10B-3	10B-3	—	—	—	—	52.2	53.7	—	—	—	—	—	—	—	—	66.7	76.4	2.54
DID 12B	12B	—	—	—	—	22.2	23.6	—	—	—	—	—	—	—	—	28.9	31.3	1.14
DID 12B-2	12B-2	19.05	11.68	12.07	5.72	41.7	43.1	—	12.7	—	19.46	1.8	1.8	16.1	14.6	57.8	62.7	2.28
DID 12B-3	12B-3	—	—	—	—	61.3	62.7	—	—	—	—	—	—	—	—	86.7	94.1	3.46
DID 16B	16B	—	—	—	—	35.1	—	38.2	—	—	—	—	—	—	—	60	63.7	2.56
DID 16B-2	16B-2	25.40	17.02	15.88	8.28	67.1	—	70.3	—	20.7	31.88	4.0	3.2	21.0	21.0	106	127	5.12
DID 16B-3	16B-3	—	—	—	—	99.1	—	102.2	—	—	—	—	—	—	—	160	191	7.59
DID 20B	20B	—	—	—	—	41.0	—	44.0	—	—	—	—	—	—	—	95	98.0	3.81
DID 20B-2	20B-2	31.75	19.56	19.05	10.19	77.4	—	80.5	—	23.5	36.45	4.5	3.5	26.4	26.4	170	196	7.57
DID 20B-3	20B-3	—	—	—	—	114.0	—	117.0	—	—	—	—	—	—	—	250	294	11.3
DID 24B	24B	—	—	—	—	53.4	—	58.7	—	—	—	—	—	—	—	160	166	7.08
DID 24B-2	24B-2	38.10	25.40	25.40	14.63	101.8	—	107.1	—	32.0	48.36	6.0	5.0	33.4	33.4	280	333	13.9
DID 24B-3	24B-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	425	500	20.7

Note: 1. 2POJ offset links are used for DID04B and DID05B.

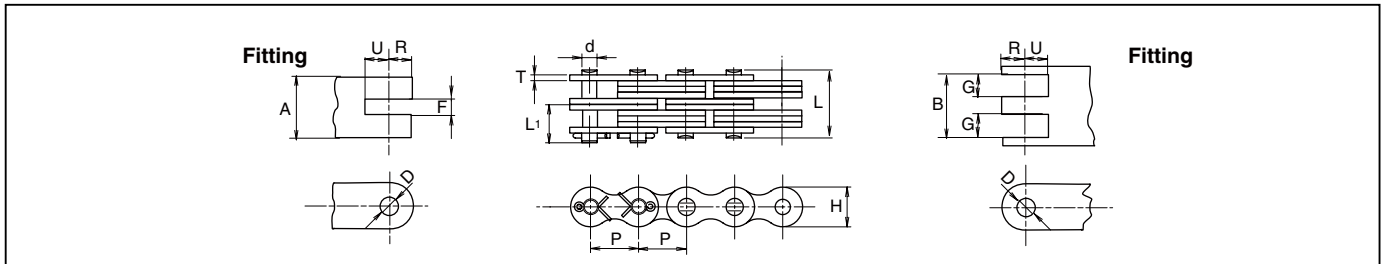
2. DID06B has flat oval-shaped plates.

3. Clip connecting links (RJ) are used for DID06B-12B and cotter connecting links (CJ) for DID16B-24B.

Leaf Chain

D.I.D

Leaf chains consist of pins and plates only and are higher in strength than roller chains. They are suitable for tasks like hoisting and pulling. Leaf chains conform to ANSI and have two types: AL and BL.



Dimensions

Unit (mm)

Chain No.	Pitch P	Plate		Pin			Min. tensile strength kN	Max. allowable load kN	Approx. weight (kg/m)	Fitting						
		H (Max.)	T	d	L (Max.)	L1 (Max.)				b (Min.)	R	U (Min.)	F (Min.)	G (Min.)	A (Max.)	B (Min.)
DID AL 422	12.59	10.4	1.5	3.97	8.1	6.0	16.6	1.86	0.40	4.00	6.3	6.3	—	—	3.0	3.3
DID AL 444					14.6	9.8	33.3	3.43	0.77				3.3	3.3	9.3	9.7
DID AL 466					21.1	12.6	50.0	3.92	1.14				3.3	3.3	15.7	16.1
DID AL 522	15.75	13.0	2.0	5.09	10.5	7.3	27.9	3.04	0.65	5.12	7.9	7.9	—	—	4.0	4.3
DID AL 544					19.0	11.5	55.8	5.29	1.26				4.3	4.3	12.3	12.7
DID AL 566					27.5	15.8	83.8	6.27	1.85				4.3	4.3	20.7	21.1
DID AL 622	19.05	15.6	2.4	5.96	12.5	8.8	38.2	4.41	0.90	6.00	9.5	9.5	—	—	4.8	5.1
DID AL 644					22.7	13.9	76.4	7.45	1.75				5.1	5.1	14.7	15.1
DID AL 666					32.8	19.0	114	8.72	2.59				5.1	5.1	24.7	25.1
DID AL 822	25.28	20.8	3.2	7.94	16.4	11.0	66.6	7.35	1.55	8.00	12.7	12.7	—	—	6.4	6.8
DID AL 844					29.7	17.8	133	13.2	3.04				6.8	6.8	19.8	20.1
DID AL 866					43.1	24.5	200	15.3	4.51				6.8	6.8	32.9	33.4
DID AL 1022	31.64	26.0	4.0	9.54	19.1	13.1	100	11.5	2.46	9.60	15.8	15.8	—	—	8.0	8.4
DID AL 1044					36.4	21.3	200	20.5	4.80				8.4	8.4	24.4	24.9
DID AL 1066					53.1	29.7	423	24.0	7.15				8.4	8.4	40.9	41.4
DID AL 1222	37.98	31.2	4.8	11.11	23.8	15.3	141	16.4	3.32	11.20	19.0	19.0	—	—	9.6	10.0
DID AL 1244					43.4	25.2	282	29.1	6.50				10.0	10.0	29.2	29.7
DID AL 1266					63.4	35.1	423	34.2	9.68				10.0	10.0	48.9	49.4
DID AL 1444	44.32	36.3	5.6	12.71	50.6	30.1	372	38.9	10.0	12.80	22.2	22.2	11.6	11.6	34.0	34.5
DID AL 1446					73.6	41.6	558	46.0	14.6				11.6	11.6	56.9	57.4
DID AL 1644					57.5	33.4	470	49.9	12.7	14.40	25.4	25.4	13.2	13.2	38.8	39.4
DID AL 1666	50.62	41.4	6.4	14.29	83.6	46.4	706	58.8	19.6				13.2	13.2	64.9	65.5
DID BL 423	12.70	12.0	2.0	5.09	12.5	8.5	24.5	4.51	0.86	5.12	6.3	6.3	—	—	6.0	6.3
DID BL 434					16.9	10.6	37.2	5.29	1.16				2.2	4.3	10.3	10.7
DID BL 446					23.2	13.7	49.0	5.98	1.69				4.3	6.4	16.3	16.8
DID BL 523	15.875	15.0	2.4	5.96	15.0	9.9	39.2	6.86	1.30	6.00	7.9	7.9	—	—	7.2	7.5
DID BL 534					20.2	12.5	58.8	8.33	1.73				2.6	5.1	12.3	12.7
DID BL 546					27.7	16.3	78.4	9.41	2.44				5.1	7.6	19.5	20.0
DID BL 623	19.05	18.1	3.2	7.94	19.8	12.6	68.6	9.80	2.08	8.00	9.5	9.5	—	—	9.7	10.0
DID BL 634					26.7	16.2	103	12.2	2.85				3.4	6.8	16.2	16.9
DID BL 646					36.7	21.1	127	13.7	4.07				6.8	10.1	26.0	26.6
DID BL 823	25.40	24.0	4.0	9.54	24.0	15.3	102	16.9	3.25	9.60	12.7	12.7	—	—	12.1	12.4
DID BL 834					32.4	19.3	154	20.5	4.50				4.2	8.4	20.2	20.9
DID BL 846					44.8	25.5	205	23.5	6.39				8.4	12.5	32.4	33.0
DID BL 1023	31.75	29.9	4.8	11.11	28.6	17.7	141	25.9	4.33	11.20	15.8	15.8	—	—	14.4	14.8
DID BL 1034					38.6	22.7	220	31.3	6.03				5.0	10.0	24.2	24.9
DID BL 1046					53.9	30.2	282	36.2	8.53				10.0	14.9	38.8	39.4
DID BL 1223	38.10	35.9	5.6	12.71	33.3	21.5	193	36.7	6.06	12.80	19.0	19.0	—	—	16.8	17.3
DID BL 1234					44.8	27.2	313	44.1	8.45				5.9	11.6	28.0	28.8
DID BL 1246					61.7	36.1	386	50.5	12.0				11.6	17.4	45.2	45.9
DID BL 1423	44.45	41.9	6.4	14.29	37.6	23.4	254	49.0	8.74	14.40	22.2	22.2	—	—	19.2	19.7
DID BL 1434					50.7	30.0	421	58.8	10.9				6.7	13.2	32.0	32.8
DID BL 1446					70.4	39.8	509	67.6	20.3				13.2	19.8	51.6	52.3
DID BL 1623	50.80	47.8	7.1	17.46	41.7	26.7	353	58.8	11.9	17.60	25.4	25.4	—	—	21.3	21.8
DID BL 1634					56.4	34.0	554	70.6	16.6				7.4	14.6	35.5	36.3
DID BL 1646					78.0	44.8	706	80.4	23.6				14.6	11.9	57.2	57.9

Note: 1. Except for AL-60 series, the pitch of AL type chains is slightly different to that of ANSI standard.
2. The values of max. allowable tension are not applied to connecting links.

Features

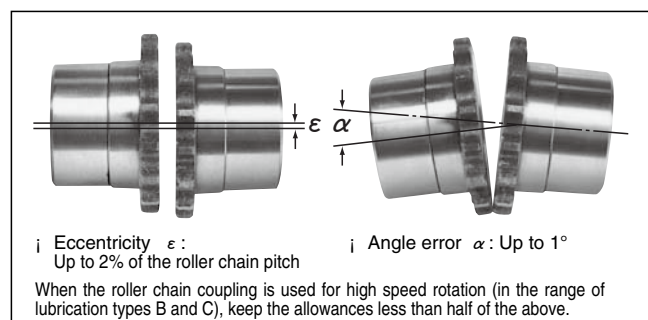
1. Simple structure

A roller chain coupling consists of one duplex roller chain and two sprockets for a simplex chain. Handling is very simple as both the shafts (driving shaft and driven shaft) can be connected and disconnected by inserting or removing connecting pins (cotter type).



2. Easy alignment

Owing to the play between the respective components of the chain and the play between the roller chain and the sprockets, the eccentricity and angle error can be generally allowed as follows:



3. Small but powerful

Since a powerful roller chain is engaged with the sprockets at all the teeth, a large torque can be transmitted, though the coupling itself is smaller than other kinds of couplings.

4. Excellent durability

The roller chain is made of heat-treated steel and manufactured precisely and solidly to the highest manufacturing standard. The durability is outstanding and little time is required for maintenance as the sprockets have induction-hardened special teeth, and are always engaged with the roller chain.

5. Protection of machine

Rational flexibility decreases vibration, overheating and wear of the bearings caused by the eccentricities and angle errors of the shafts.

Standard housing

The standard housings for No. 8022 or smaller are made of aluminum alloy die casting, and those for No. 10020 or larger are made of aluminum alloy casting. Installation of housings has the following advantages.



1. Advantages of housing

●Holding of lubrication

Since a roller chain coupling rotates with flexibility, the teeth of the roller chain and sprockets slide slightly during operation. So, they must be kept lubricated for prevention of wear as much as possible. The housing functions as a grease box for the lubrication.

●Prevention of grease scattering

Especially in high speed rotation, grease may be scattered by centrifugal force. The housing functions as a protector that prevents this.

●Protection from dust and moisture (corrosive atmosphere)

When a roller chain coupling is used in a wear-causing or corrosive circumstances, the chain life is extremely shortened unless the coupling is perfectly shielded from the circumstances. The housing functions to protect the roller chain coupling, preventing the shortening of life.

●High safety and neat appearance

Since the housing has no protrusions outside, it is safe even if it rotates with the roller chain coupling. It is also neat in appearance. (To avoid possible injury, do not touch the housing when rotating.)

2. Structure

The roller chain coupling can be split in the direction perpendicular to the shafts. The hole on the driving shaft side of the housing firmly holds the coupling's sprocket hub. The hole on the driven shaft side keeps a clearance of 1 mm or more from the sprocket hub to maintain flexibility of the coupling. Oil leakage from this portion is prevented by a seal ring.

⚠ Caution	Case and danger preventer
●	In the lubrication type "C" of above table, the case shall be always used. In type "B", the case shall be used preferably for safety. ● For the use of high speed machine or heavily vibrating machine, coat fixing bolts with a loosening preventive. ● Install a safety cover to prevent any damage by unexpected breakage of case, chain and bolts.
⚠ Caution	Inhibition of modification, re-use nor partial replacement
●	Partial replacement or re-use of the coupling will lower the strength, which will cause breaking or destruction. Never make these works. Furthermore, since the coupling is heat treated, never modify the cotter pin holes and any other parts. When replacement is necessary, replace a body of coupling (a roller chain and sprockets) or the case respectively.
⚠ Caution	Abnormal noise
●	Abnormal noise during operation can be considered as a sign of trouble or time to replace. Immediately switch off the power and determine the cause of noise.

Roller Chain Coupling



Lubrication of roller chain coupling

The lubrication of a roller chain coupling belongs to the following three types: A, B and C, depending on the speed of rotation used.

1. Lubrication types

Type A	Greasing once a month.
Type B	Greasing every 1 ~ 2 weeks, or install a lubrication housing.
Type C	Be sure to install a housing, and replace grease every 3 months.

2. Grease

Since a roller chain coupling is usually used at high speed for a long time, grease must satisfy the following conditions.

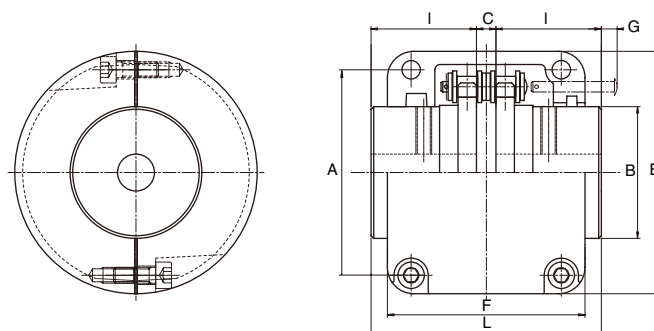
Table of Lubrication Type			
Roller Chain Coupling No.	A less than r/min.	B over ~ less than r/min.	C over r/min.
DID C-4012	500	500~1,200	1,200
DID C-4014	400	400~1,200	
DID C-4016		400~1,000	1,000
DID C-5014	300	300~800	800
DID C-5016			
DID C-5018			
DID C-6018	200	200~600	600
DID C-6022		200~500	500
DID C-8018			
DID C-8022	100	100~400	400
DID C-10020	50	50~400	
DID C-12018		50~300	300
DID C-12022			
DID C-16018	25	25~200	200
DID C-16022			
DID C-20018			
DID C-20022	10	10~200	100
DID C-24022		10~100	
DID C-24026	5	10~50	50

- Excellent in mechanical stability, oxidation stability and adhesion.
- Grease based on metallic soap: For low speed operation, grease based on sodium soap, i.e., fiber grease can be used, but for high speed operation (for lubrication type B and C), be sure to use grease based on lithium soap.

3. Greasing amount

Fill appropriate amount of grease in the housing in accordance with the following table.

Roller chain coupling No.	Required amount of grease kg	Roller chain coupling No.	Required amount of grease kg
DID C-4012	0.10	DID C-10020	1.8
DID C-4014	0.13	DID C-12018	3.2
DID C-4016	0.17	DID C-12022	4.4
DID C-5014	0.22	DID C-16018	7.2
DID C-5016	0.26	DID C-16022	9.9
DID C-5018	0.36	DID C-20018	11.8
DID C-6018	0.5	DID C-20022	15.8
DID C-6022	0.7	DID C-24022	21.9
DID C-8018	0.9	DID C-24026	28.1
DID C-8022	1.2	—	—



Dimensions

Dimensions																	Unit (mm)	
Roller chain coupling No.		Applicable range of shaft dia.	Prepared hole dia.	E	F	A (max.)	L	R	C	B	G	Set screw	Max. allowable torque of under 50rpm		Allowable rotation (r/min)	Approx. weight (kg)	Moment of inertia $\times 10^{-3}$ kg·m	GD ² $\times 10^{-3}$ kgf·m ²
DID	JIS												kN·m	kgf·m				
DID C-4012	4012	11~ 22	10	75	75	61	79.4	36	7.4	35	9	M 6	0.249	25.4	4,800	1.1	0.55	2.20
DID C-4014	4014	14~ 28	10	84	75	69	79.4	36	7.4	43	9	M 6	0.329	33.6	4,800	1.3	0.97	3.85
DID C-4016	4016	16~ 32	14	92	75	77	87.4	40	7.4	50	6	M 6	0.419	42.8	4,800	1.85	1.44	5.76
DID C-5014	5014	16~ 35	14	102	85	86	99.7	45	9.7	53	11	M 8	0.620	63.3	3,600	2.7	2.80	11.2
DID C-5016	5016	18~ 40	14	111	85	96	99.7	45	9.7	60	11	M 8	0.791	80.7	3,600	3.25	3.70	14.8
DID C-5018	5018	18~ 45	14	122	85	106	99.7	45	9.7	70	11	M 8	0.979	99.9	3,000	4.25	5.63	22.5
DID C-6018	6018	22~ 56	18	142	106	128	123.5	56	11.5	85	15	M10	1.81	185	2,500	7.3	13.73	54.9
DID C-6022	6022	28~ 75	18	167	106	152	123.5	56	11.5	110	15	M10	2.61	267	2,500	11.6	29.5	118
DID C-8018	8018	32~ 80	23	186	130	170	141.2	63	15.2	115	27	M12	3.92	400	2,000	16.15	52.0	208
DID C-8022	8022	40~100	28	220	130	203	157.2	71	15.2	140	19	M12	5.64	576	1,800	24.3	111	444
DID C-10020	10020	45~110	40	255	160	233	178.8	80	18.8	160	29	M12	8.40	857	1,800	39.7	244	976
DID C-12018	12018	50~125	45	280	184	255	202.7	90	22.7	170	47	M12	12.7	1,300	1,500	53.8	394	1,575
DID C-12022	12022	56~140	50	330	190	303	222.7	100	22.7	200	37	M12	18.3	1,870	1,250	77.1	781	3,122
DID C-16018	16018	63~160	55	375	240	340	254.1	112	30.1	225	64	M16	26.4	2,700	1,100	108	1,453	5,811
DID C-16022	16022	80~200	70	440	245	405	310.1	140	30.1	280	36	M16	38.1	3,890	1,000	187	3,222	12,890
DID C-20018	—	82~205	75	465	285	425	437.5	200	37.5	290	15	M20	54.1	5,520	800	286	5,098	20,390
DID C-20022	—	100~255	90	545	300	506	477.5	220	37.5	360	—	M20	77.8	7,940	600	440	11,110	44,450
DID C-24022	—	120~310	110	650	340	607	650	302.5	45.0	445	—	M20	137	14,000	600	869	31,000	124,100
DID C-24026	—	150~360	140	745	350	704	700	327.5	45.0	525	—	M20	186	19,000	500	1,260	59,850	239,400




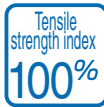



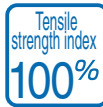











Note: 1. Dimension G indicates the required margin for assembling and de-assembling of the roller chain coupling.

2. Allowable rotation is applicable only when the housing is mounted.









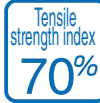
















3. The weight of the housing and grease is included in Approx. weight and GD².

4. Ask us for the delivery time.

Dependable in severe conditions















Name	Solid Bushing Chain (HT/ T), (D)	DH- α Chain (DHA)
		
Features	<ol style="list-style-type: none"> 1. Incorporating high precision solid bushing. 2. Ideally suited when increased wear resistance is required. 3. Up to 4 times longer wear life than standard chain. 	<ol style="list-style-type: none"> 1. Forming extremely hardened carbide layer on pin surface. 2. Suitable for bad atmosphere such as deterioration of lubrication and invasion of contaminant particles between pin and bushing. 3. Up to 7 times longer wear life than standard chain.
Functions	  	   
Main uses	   	     

Chain No.	Solid Bushing	DH- α	O-Ring/X-Ring	Sintered Bushing
DID 25	HT	DHA	-	-
DID 35	T	DHA	LD	-
DID 41	-	DHA	-	-
DID 40	D	DHA	LX	UR, URN
DID 50	D	DHA	LX	UR, URN
DID 60	D	DHA	LX	UR, URN
DID 80	D	-	LD	UR, URN
DID 100	D	-	LD	-
DID 120	-	-	LD	-
DID 140	-	-	LD	-
DID 160	-	-	LD	-
DID 200	-	-	LD	-
DID 240	-	-	LD	-

X-Ring Chain(LX)/O-Ring Chain(LD)	Sintered Bushing Roller Chain (UR), (URN)	Name
		
<ol 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. 	<ol style="list-style-type: none"> 1. Sintered bushing is incorporated. 2. Ultimate Life Chain for low speed and light load applications. 3. Up to 5 times longer wear life than standard chain. 	Features
    	  	Functions
        	     	Main uses

※ LX: Temp. -10°C~120°C, LD: Temp. -10°C~80°C

Symbols

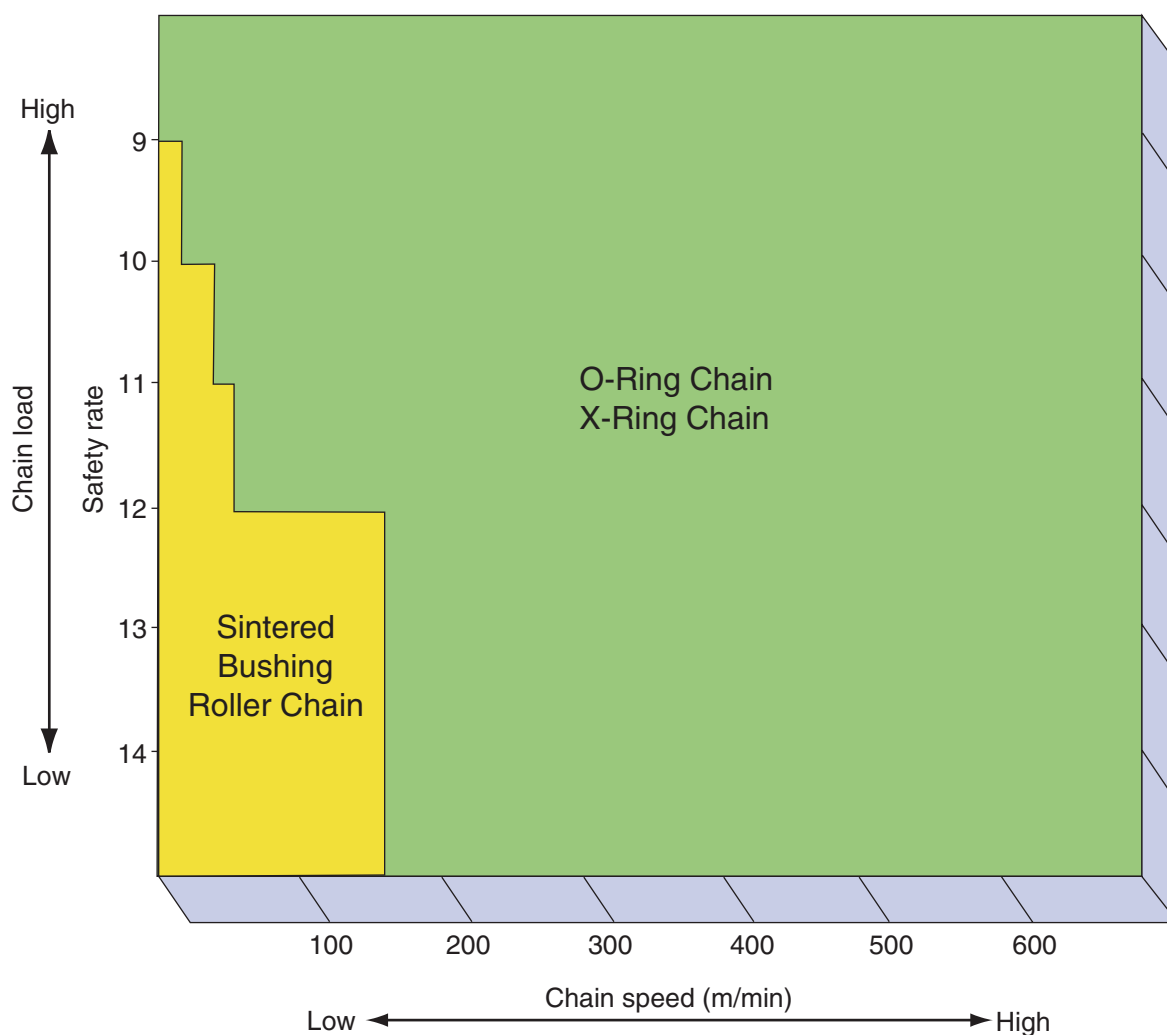
Functions	<div>  Resistant against contaminated or deteriorated oil </div> <div>  No lubrication or maintenance </div> <div>  Allowable ambient temperature </div> <div>  Resistant against dusty circumstances </div> <div>  Tensile strength index (Compared to standard roller chains) </div>
Main uses	<div>  Feed and drive in food processing machines </div> <div>  Feed and drive in packaging machines </div> <div>  Feed and drive in textile machines </div> <div>  Feed and drive in printing machines </div> <div>  Feed and drive in the conveyors and transfer equipment </div> <div>  Feed and drive in can conveyors and for painting and drying cans </div> <div>  Feed and drive in construction machines </div> <div>  Feed and drive of home appliances </div> <div>  Drive of agricultural machines </div>

Wide range of product line-up

O-Ring/X-Ring Chain and Sintered Bushing Roller Chain applicable for use under various conditions

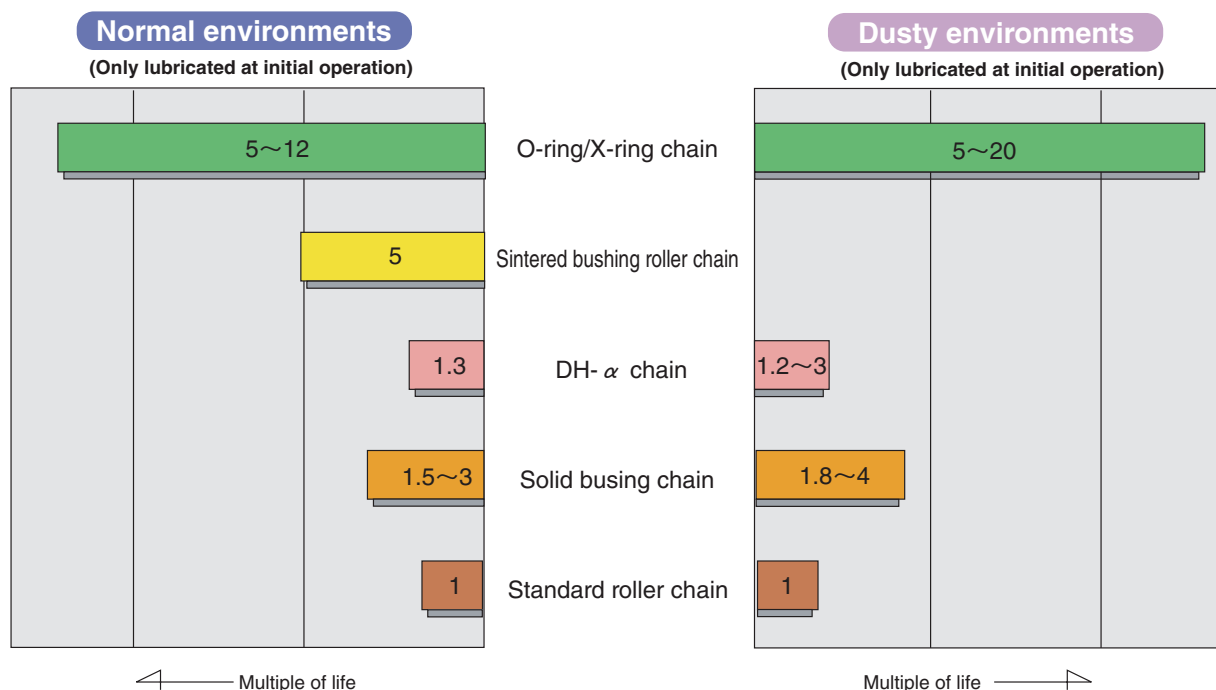
Two types of maintenance-free chains

The Ultimate Life Chain Series includes two types of maintenance-free chains, O-Ring Chain and Sintered Bushing Roller Chain. They can be applied in various conditions from low-speed to high-speed operation, or from low-load to high-load operation as you can see in the chart below.

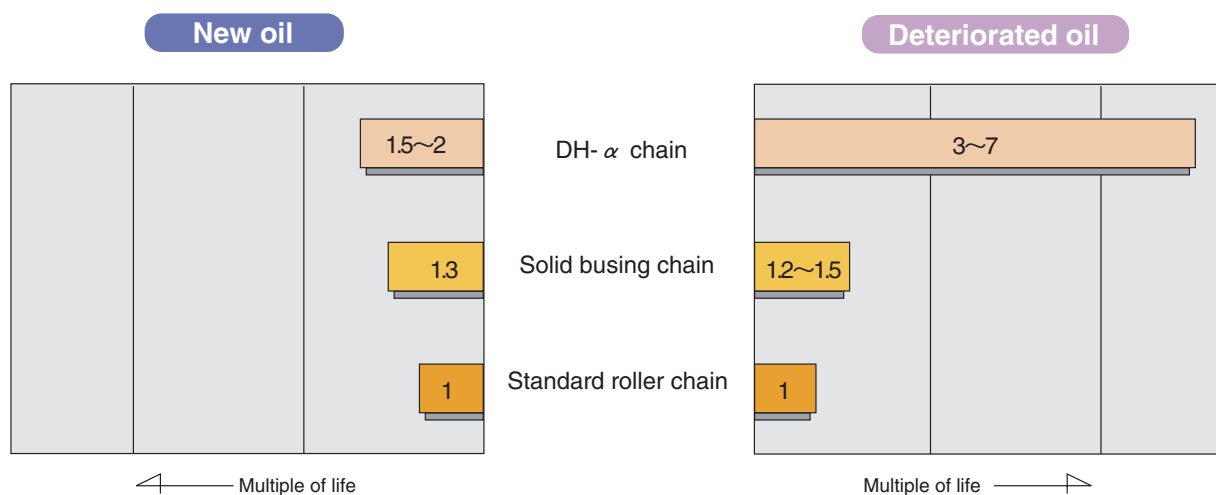


Life Comparison Test



















1 Chain life comparison without lubrication (Compared with standard roller chain as the bench mark)



2 Chain life comparison by new oil and deteriorated oil (Compared with standard roller chain as the bench mark)



Applicable for many different environments

Name	Nickel Plated Chain (N)	Hi-Guard Chain (E)	Double Guard Chain (WG)
			
Features	<ol style="list-style-type: none"> 1. Special nickel plated finish. 2. Where brilliance and cleanliness are required. 3. Strong corrosion resistance (highly resistant to salt water spray and acid atmosphere). 	<ol style="list-style-type: none"> 1. High corrosion resistant film coating. 2. Where long periods of seasonal inactivity create need for protection against indoor or out. 3. Outstanding resistance to rusting or corrosion, particularly in salt water environments. 	<ol style="list-style-type: none"> 1. Rust protection "twice as tough" as DID Hi-Guard Chain. 2. Amazing performance in acidic and alkaline atmospheres. 3. The tensile strength and working load is the same as ANSI standard chain and makes the downsizing possible where stainless steel chain is used.
Functions	    	   	     
Main uses	<div> <div>TEXTILE</div> <div>CONVEYOR^{*1}</div> <div>FOOD</div> <div>CHEMICALS</div> </div> <div> <div>PRINT</div> <div>PARKING</div> </div>	<div> <div>TEXTILE</div> <div>CONVEYOR</div> <div>PARKING</div> <div>WATER TREATMENT</div> </div> <div> <div>CONSTRUCTION</div> <div>OUTDOOR</div> </div>	<div> <div>TEXTILE</div> <div>CONVEYOR</div> <div>PARKING</div> <div>WATER TREATMENT^{*2}</div> </div> <div> <div>OUTDOOR</div> <div>CONSTRUCTION^{*2}</div> <div>FOOD^{*2}</div> <div>CHEMICALS^{*2}</div> </div> <div> <div>PHARMACEUTICAL</div> </div>

Environment Resistant Series: Chain No. and Codes



Chain No.	Nickel Plated	HI-Guard	Double Guard	Stainless steel			Low temperature
				Non O-Ring		X-Ring	
DID 25	N	-	-	SS	-	-	-
DID 35	N	E	-	SS	-	-	-
DID 41	N	-	-	-	-	-	-
DID 40	N	E	WG	SS	SSK	SSLT	TK
DID 50	N	E	WG	SS	SSK	SSLT	TK
DID 60	N	E	WG	SS	SSK	SSLT	TK
DID 80	N	E	WG	SS	SSK	SSLT	TK
DID 100	N	E	-	SS	SSK	-	TK
DID 120	N	E	-	SS	SSK	-	TK
DID 140	N	-	-	SS	-	-	TK
DID 160	N	-	-	SS	-	-	TK
DID 180	-	-	-	-	-	-	-
DID 200	-	-	-	SS	-	-	-
DID 240	-	-	-	-	-	-	-

Stainless Steel Chain		Stainless Steel X-Ring Chain	Low Temperature	Name
(SS)	(SSK)	(SSLT)	(TK)	
1. SUS304 2. Where chains is exposed to chemicals, water and high temperature. 3. The best resistance to corrosion and heat.	1. SUS304 (plate) + SUS631 (pin,bushing,and roller). 2. Where chain is exposed to chemicals, water and high temperature. 3. 1.5 times higher max allowable load than SS type.	1. Up to 10 times greater wear resistance performance compared to standard stainless steel chain. 2. Great cost saving can be achieved through longer life and less down time. 3. The patented X-ring design provides great sealing performance at half the friction of standard O-ring.	1. Chain is made of special alloy steel lubricated with a special grease,both ideally suited for cold temperature operation. 2. Where temperature reaches to -40 degree C. (-40 degree F.) 3. Excellent strength and operation at low temperatures.	Features
				Functions
				Main uses

■ Symbols

Functions	Resistant against corrosive gas (by CASS test) Suitable for circumstances required hygiene Resistant against contaminated or deteriorated oil	Resistant against rain, moisture or sea water Allowable ambient temperature No lubrication or maintenance	Resistant against alkali liquid Coating tolerable temperature Resistant against dusty circumstances	Resistant against acid liquid Allowable tension index (Compared to standard roller chains) Running cost and maintenance cost can be saved
Main uses	Feed and drive in packaging machines Feed and drive in chemicals facilities Feed and drive in outdoor equipment	Feed and drive in textile machines Feed and drive in printing machines Feed and drive in construction machines	Feed and drive in the conveyors and transfer equipment Feed and drive in multilevel parking machines Feed and drive in medical facilities	Feed and drive in food processing machines Feed and drive in water treatment equipment <p>* 1. Consult us when you use chains for hoisting. * 2. Consult us when you use chains for these particular uses.</p>

High Strength Chains suitable for use in various conditions

Name	HI-PWR-S Roller Chain	HK Roller Chain
		
Features	<ol style="list-style-type: none"> 1. Higher fatigue strength and shock strength are provided without changing dimensions from standard roller chain. 2. Oval figured link-plates are provided. 	<ol style="list-style-type: none"> 1. Thickness of inner and outer plates are the same as the link-plates of the next size larger standard chain. 2. Allows the selection of a chain one size smaller than would be necessary.
Functions	<div>Allowable Load</div> <div>130%</div> <div>Tensile strength index</div> <div>110%</div> <div>Temperature Range in Use</div> <div>-10°C ~ 80°C</div>	<div>Allowable Load</div> <div>115%</div> <div>Tensile strength index</div> <div>120%</div> <div>Temperature Range in Use</div> <div>-10°C ~ 80°C</div>
Main uses	<div>CONST- RUCTION</div> <div>AGRICULTURE</div> <div>OUTDOOR</div>	<div>OIL FIELD</div> <div>CONST- RUCTION</div> <div>LUMBER</div> <div>AGRICULTURE</div>

■ Table of Ultimate Power Chain Series

Chain No.	HI-PWR-S	HK	HI-PWR-SHK
DID 50	-	HK	-
DID 60	-	HK	-
DID 80	HI-PWR-S	HK	HI-PWR-SHK
DID 100	HI-PWR-S	HK	HI-PWR-SHK
DID 120	HI-PWR-S	HK	HI-PWR-SHK
DID 140	HI-PWR-S	HK	HI-PWR-SHK
DID 160	HI-PWR-S	HK	HI-PWR-SHK
DID 180	HI-PWR-S	HK	HI-PWR-SHK
DID 200	HI-PWR-S	HK	HI-PWR-SHK
DID 240	HI-PWR-S	HK	HI-PWR-SHK

HI-PWR-SHK Roller Chain	
	Name
	Features
	Functions
	Main uses

- Both thicker link plates and oval figured link plates are provided.
- Thus it makes it possible to have maximum tensile strength and allowable load.

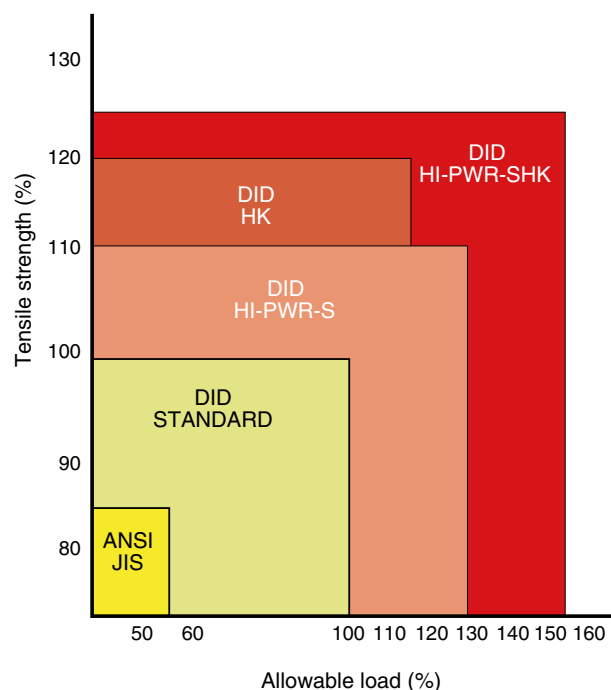
Allowable Load
150%

Tensile strength index
125%

Temperature Range in Use
-10°C ~ 80°C

CONST-
RUCTION

MINING



■ Symbols

Functions	<p>Allowable Load 130% Allowable load index (Compared to standard roller chains)</p> <p>Tensile strength index 110% Tensile strength index (Compared to standard roller chains)</p> <p>Temperature Range in Use -10°C ~ 80°C Allowable ambient temperature</p>		
Main uses	<p>CONST- RUCTION</p> <p>Feed and drive in construction machines</p>	<p>OUTDOOR</p> <p>Feed and drive in outdoor equipment</p>	<p>OIL FIELD</p> <p>Feed and drive of oilfield-related equipment</p>
	<p>LUMBER</p> <p>Feed and drive of lumber-related equipment</p>	<p>AGRICULTURE</p> <p>Drive of agricultural machines</p>	<p>MINING</p> <p>Feed and drive of mining equipment</p>

- To order for **DID60LX** with **160** links and **one R** connecting link as a loop.

[Type indication]

DID 60LX × **160** **R** **E**

DAIDO's product
Size of chain
Type of chain (LX indicates an O-ring chain)

Chain No.

Indicates that the overall length of chain is 160 links.

Length

Conditions of connecting link.

- A part from the chain. ----- B :
- Connected with the chain to form a loop. ----- E :
- Connected with the chain to form a straight shape. ----- T :

Chain direction

Packaging

• Clip type ----- R : Clearance fit, F : Interference fit
• Cotter pin type -- C : Clearance fit, H : Interference fit

Some are inapplicable, depending on the chain size.

Type of connecting link.

- To order for **DID80CP** with **121** links, **three** offset links and **one C** connecting link as a straight chain.

DID 80CP × **117LL** + **OJ** × **3** + **CJ** +

DAIDO's product
Size of chain
Type of chain
Method for connecting pins and plates.
Rivet : RP
Cotter pin : CP
(No expression means RP)

Chain No.

Indicates that the number of inner links from one end to the other end of a chain is 117.

Length

Indicates that 3 offset links (OJ) are required.

If the components stated before and after this symbol position are to be connected when the chain is delivered, [+] (plus) sign is used, and if not connected, [,] (comma) sign is used.

This symbol means that the last link is connected with the first link (to form a loop).

Indicates a C connecting link.

- To order DID C2050 with 96 links, with bent attachments (one-hole) on both sides every two links, with a connecting link attached (in straight shape).

DID C2050 **2P** **K1** × **96** **RT**

DAIDO's product
Type of chain

Chain No.

Attachment interval

Indicates that the overall length of chain is 96 links.

Number of holes on attachment.
Types of attachments.
K : Bent attachments are installed on both sides.
A : Bent attachments are installed on one side.
SK : Straight attachments are installed on both sides.
SA : Straight attachments are installed on one side.

Attachments

Type of connecting link.
R : Clip type (DID60 or DIDC2060H or smaller)
C : Cotter type (DID80 or DIDC2080H or larger)

Connecting Link

- To order for a cotter type connecting link of DID80, in which the pins are clearance-fitted with the upper plate:

DID 80 • **CJ**

Chain No.

Type of connecting link.

Indicates a connecting link.

- To order for an offset link of DID60:

DID 80 • **OJ**

Chain No.

Indicates an offset link.
One-pitch type: OJ
Two-pitch type: 2POJ

- To order for a cotter type connecting link of DID80HK, in which the pins are clearance-fitted with the upper plate:

DID 80HK • **HJ**

Chain No.

Type of connecting link.

Indicates a connecting link.

Caution (Read this section carefully prior to making a chain selection) Improper selection and/or improper installation or maintenance of a chain may result in abnormal wear and/or breakage, which may lead to damage to machines and injury. Strictly observe the following recommendation for chain selection, and the steps and notes for handling and maintenance of chains shown in this catalog.

1. Service Factor

If service factors are set forth in technical recommendations or standards published by relative official organizations, adopt such service factors. If our recommended steps of chain selection give a different service factor, use the higher factor of the two for safety.

2. Maximum Allowable Load

The maximum allowable load on a chain should be the value to be gained from dividing the minimum tensile strength of the chain by the service factor, or the maximum allowable load to be computed in our recommended calculation formula. Use the smaller value if they differ.

The maximum allowable load of a chain to be used for lifting and moving a pallet in a mechanical multistory parking operation, various loads like uneven load due to weight of a car and dynamic load upon run and stop must be taken into consideration to compute the right maximum allowable load.

3. Connecting Link

Connecting link is generally designed to connect by a clearance fit, and as a result, the fatigue strength of the chain drops at the joint portion. When it is required to use a stronger connecting link, for example : a chain used for lifting, use our recommended connecting links to be interference-fit or riveted, and do not use an offset link.

4. Connection of Chain Terminal Clevis

Accidents may often happen at the connected portion of chain and clevis attachment. The strength of the joint pin will drop drastically due to increased bending movement caused on the pin, particularly when the clevis is improperly sized (length or diameter of the pin), also when the hole ends where the clevis fits get bigger in use. Pin strength drops remarkably, so it is necessary to harden the hole of the clevis attachment by heat treatment or to press-fit a solid bushing into the hole.

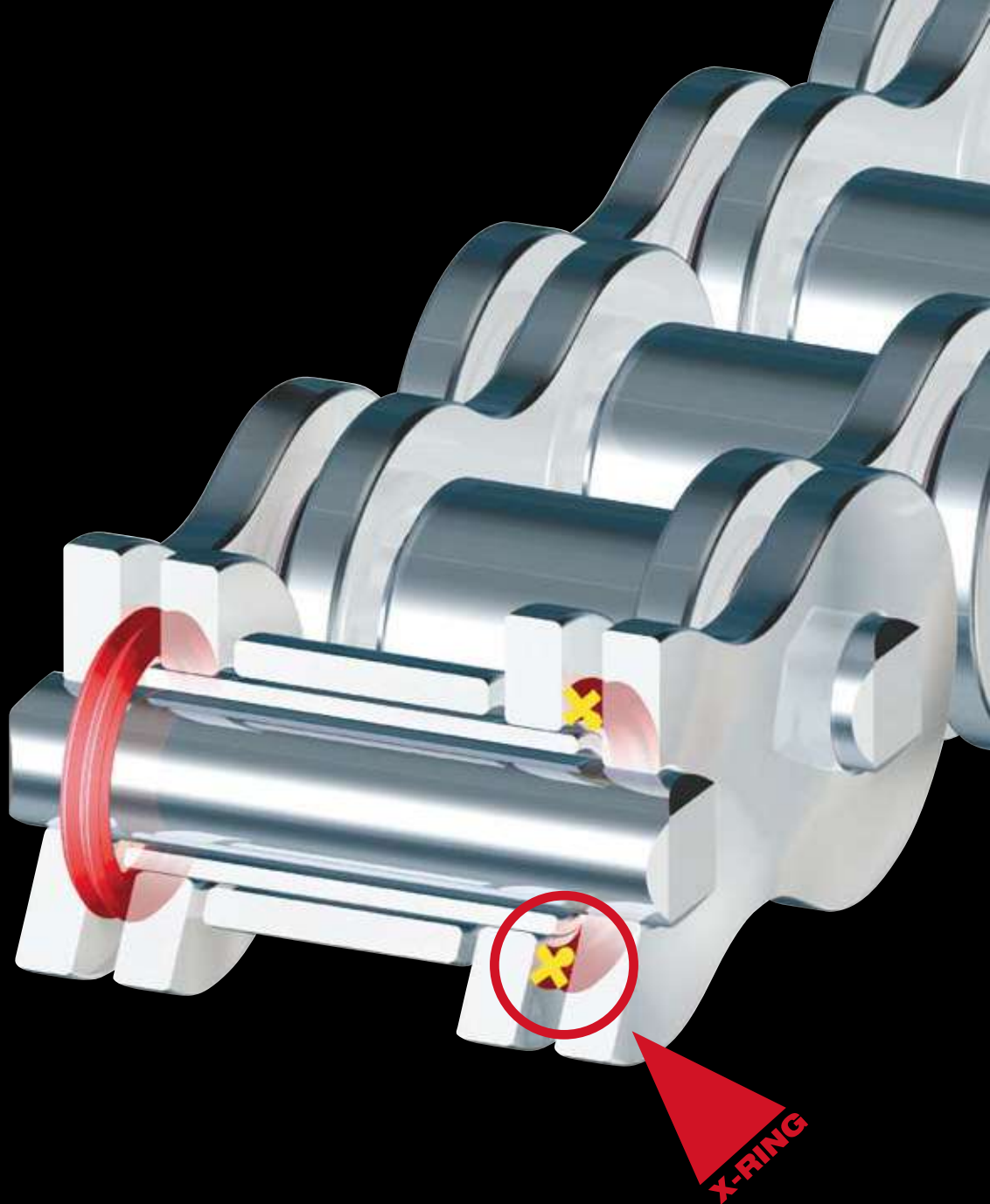
Warning : For any application requiring lifting, hoisting, or similar usage, we have a special sales clause. Please consult with us before designing chain selection and purchase.

5. Surrounding Conditions

1. Cold makes chain strength drop dramatically. Use our cold resistance chain in cold operations. Ice and frost also cause chain to reduce flexibility. Lubricate the chain with special low temperature oil or grease.
2. Where snow is present, the weight of snow may increase the load on the chain. Consider this factor fully when selecting a chain.
3. When chain corrodes, the chain strength is substantially reduced. Corrosive conditions must be taken into full consideration in selecting a chain.

6. Installation and Maintenance

1. Installation
 - a. Chain casing is recommended to be used to protect chain from corrosion by rain and snow.
 - b. Coat connecting link fully with grease when it is assembled.
 - c. After fitting chain, coat chain and clevis attachment fully with grease and oil to prevent rust.
 - d. The accuracy of installing chain, sprocket and clevis attachment should follow our recommended values. Consult with us for more information.
2. Maintenance
 - a. Periodic lubrication between inner plate and outer plate should be performed.
 - b. The rusting of chain causes chain strength to drop. Replace the chain as soon as rust appears.
 - c. Periodic inspection must be given to the link plate of the chain, If any crack is found on the link plate, the chain should be immediately replaced with a new chain.



D.I.D.[®]
DAIDO KOGYO CO., LTD.
<http://www.did-daido.co.jp>

Sales & Marketing:

D.I.D CO., LTD.

Head Office (Tokyo Office)

3-5-4 Ningyo-cho, Nihombashi Chuo-ku Tokyo 103-0013, Japan
Phone +81-3-3808-0785 Fax +81-3-5695-7146

Osaka Office

2-12-12 Minami-semba, Chuo-ku Osaka 542-0081, Japan
Phone +81-6-6251-2027 Fax +81-6-6258-3230

Distributed By :