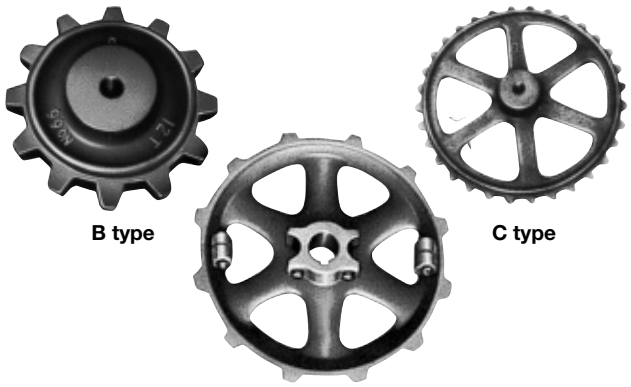
Sprockets for Cast Chains

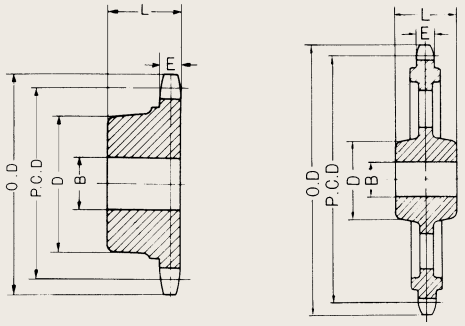
The sprockets we manufacture are based on many years of design experience.
If the application requires, we also manufacture sprockets with surface hardened tooth tips for improved wear resistance.

Sprockets for Cast Chains Table of Dimensions



B type　　C type

Split type



B type　　C type

Note: Dimension E is Dimension E from the table of chain (plain links) dimensions.

For No. 25 (pitch 22.91 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	52.80	60	B	20	40	48	10	0.4
8	59.87	68	B	23	45	48	10	0.5
9	66.98	74	B	27	50	50	10	0.7
10	74.14	81	B	30	55	50	10	0.8
11	81.32	89	B	30	55	50	10	0.9
12	88.52	96	B	30	55	50	10	1.0
14	102.96	110	B	30	55	50	10	1.3
16	117.43	125	B	36	65	50	10	1.6
18	131.93	139	B	36	65	50	10	1.8
20	146.45	154	B	36	65	50	10	2.0
24	175.52	183	C	40	70	60	10	2.5
30	219.18	127	C	40	70	60	10	3.2

For No. 42 (pitch 34.93 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	80.51	91	B	36	65	55	16	1.6
8	91.28	101	B	36	65	55	16	1.8
9	102.13	112	B	36	65	55	16	2.1
10	113.04	123	B	40	70	55	16	2.4
11	123.98	134	B	40	70	55	16	2.9
12	134.96	145	B	50	85	55	16	3.1
14	156.98	167	C	50	85	60	16	3.8
16	179.04	189	C	54	90	65	16	4.4
18	201.15	211	C	54	90	65	16	5.0
20	223.29	233	C	54	90	65	16	5.8
24	267.61	278	C	54	90	65	16	7.0
30	334.17	344	C	54	90	65	16	9.0

For No. 32 (pitch 29.31 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	67.55	77	B	27	50	50	13	0.8
8	76.59	86	B	30	55	50	13	1.0
9	85.70	95	B	30	55	50	13	1.2
10	94.85	104	B	36	65	55	13	1.4
11	104.04	113	B	36	65	55	13	1.6
12	113.25	122	B	40	70	55	13	1.8
14	131.72	141	B	40	70	60	13	2.1
16	150.24	159	B	40	70	60	13	2.5
18	168.79	178	C	40	70	60	13	2.8
20	187.36	196	C	40	70	60	13	3.2
24	244.55	234	C	40	70	60	13	4.0
30	280.40	289	C	40	70	60	13	5.1

For No. 45. 445, 455 (pitch 41.40 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	95.42	1.6	B	36	65	55	18	2.8
8	108.18	119	B	36	65	55	18	3.2
9	121.05	132	B	36	65	55	18	3.5
10	133.97	145	B	50	85	55	18	3.9
11	146.95	158	B	50	85	55	18	4.2
12	159.96	171	C	54	90	65	18	4.6
14	186.05	197	C	54	90	65	18	5.4
16	212.21	223	C	54	90	65	18	6.1
18	238.41	249	C	54	90	65	18	6.8
20	264.65	275	C	54	90	65	18	7.6
24	317.18	328	C	54	90	65	18	9.1
30	396.07	408	C	54	90	65	18	11.4

For No. 51 (pitch 29.34 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	67.62	81	B	27	50	55	15	1.2
8	76.67	90	B	27	50	55	15	1.3
9	85.78	99	B	33	60	55	15	1.5
10	94.95	108	B	33	60	55	15	1.7
11	104.14	117	B	33	60	55	15	2.0
12	113.36	126	B	40	70	55	15	2.3
14	131.85	145	B	40	70	55	15	3.3
16	150.39	163	C	40	70	65	15	4.1
18	168.96	182	C	40	70	65	15	4.9
20	187.55	201	C	40	70	65	15	6.0
24	224.78	238	C	54	90	65	15	6.5

For No. 52 (pitch 38.25mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	88.16	101	B	30	55	55	16	2.0
8	99.95	112	B	36	65	55	16	2.4
9	111.84	124	B	36	65	55	16	2.7
10	123.78	136	B	40	70	55	16	3.1
11	135.77	148	C	40	70	55	16	3.5
12	147.79	160	C	40	70	65	16	3.8
14	171.90	184	C	40	70	65	16	4.6
16	196.06	208	C	40	70	65	16	5.3
18	220.27	233	C	54	90	65	16	6.0
20	244.51	257	C	54	90	65	16	6.6
24	293.04	305	C	60	95	75	16	9.0
26	317.33	330	C	60	95	75	16	10.2
30	365.93	378	C	60	95	75	16	12.5

For No. 55 (pitch 41.43 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	95.49	108	B	36	65	55	18	2.2
8	108.26	121	B	36	65	55	18	2.6
9	121.13	134	B	36	65	55	18	3.0
10	134.07	147	B	54	90	65	18	3.7
11	147.06	160	B	54	90	65	18	4.0
12	160.07	173	C	54	90	65	18	4.4
14	186.19	199	C	54	90	65	18	5.2
16	212.36	225	C	54	90	65	18	6.0
18	238.59	252	C	54	90	65	18	6.4
20	264.84	278	C	54	90	65	18	7.5
24	317.41	330	C	60	95	75	18	9.6
28	370.03	383	C	60	95	75	18	11.8

For No. 62 (pitch 42.01 mm)

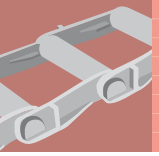
No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
8	109.78	124	C	33	60	60	22	3.2
9	122.83	137	C	33	60	60	22	3.9
10	135.95	151	C	40	70	60	22	4.6
11	149.11	164	C	40	70	60	22	5.3
12	162.31	177	C	43	75	60	22	5.8
14	188.79	203	C	54	90	60	22	6.8
16	215.33	230	C	60	95	75	22	8.7
18	241.93	257	C	60	95	75	22	10.0
20	268.54	283	C	66	110	75	22	10.6
24	321.85	337	C	66	110	75	22	13.2
28	375.21	390	C	66	110	75	22	15.6

For No. 57, 67, 477 (pitch 58.62 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
8	153.18	168	C	43	75	60	18	4.6
9	171.39	186	C	50	85	70	18	5.6
10	189.70	204	C	60	95	75	18	6.6
11	208.07	223	C	60	95	75	18	7.5
12	226.49	241	C	60	95	75	18	8.4
14	263.44	278	C	66	110	75	18	10.4
16	300.47	315	C	66	110	75	18	11.5
18	337.58	352	C	66	110	75	18	12.5
20	374.72	389	C	66	110	75	18	14.4
24	449.11	464	C	70	115	90	18	18.4
28	523.56	538	C	70	115	90	18	23.5

For No. 77 (pitch 58.34 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
8	152.45	165	C	43	75	60	18	4.6
9	170.57	184	C	50	85	70	18	5.6
10	188.79	202	C	60	95	75	18	6.6
11	207.08	220	C	60	95	75	18	7.5
12	225.41	238	C	60	95	75	18	8.4
14	262.18	275	C	66	110	75	18	10.4
16	299.04	312	C	66	110	75	18	11.5
18	335.97	349	C	66	110	75	18	12.5
20	372.93	386	C	66	110	75	18	14.4
24	446.96	460	C	70	115	90	18	18.4
28	521.06	534	C	70	115	90	18	23.5



Sprockets for Cast Chains

For No. 78, 88, 488, H78 (pitch 66.27 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
8	173.17	189	C	60	95	75	24	7.5
9	193.76	210	C	60	95	75	24	9.5
10	214.46	230	C	60	95	75	24	11.0
11	235.23	251	C	63	100	75	24	13.0
12	256.05	272	C	63	100	75	24	15.0
14	297.82	314	C	63	100	90	24	18.5
16	339.69	355	C	70	115	90	24	21.8
18	381.64	397	C	70	115	90	24	23.0
20	423.62	439	C	70	115	90	24	27.0
24	507.71	523	C	70	115	90	24	34.0
26	549.79	566	C	80	130	90	24	40.0
30	633.99	650	C	80	130	90	24	55.0

For No. 124 (pitch 101.6 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
7	234.17	260	C	70	150	100	40	15.8
8	265.49	291	C	75	150	110	40	20.8
9	297.06	323	C	75	150	110	40	24.4
10	328.78	354	C	85	165	115	40	26.0
11	360.63	386	C	85	165	115	40	28.5
12	392.55	418	C	100	185	125	40	34.8
13	424.55	450	C	100	185	125	40	38.5
14	456.59	482	C	100	185	125	40	42.1

For No. 103, 4103, H82 (pitch 78.11 mm)

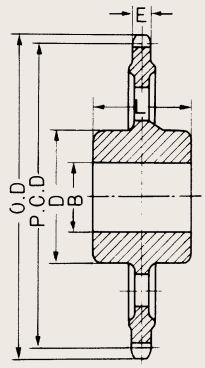
No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
8	204.11	226	C	70	115	90	28	14.0
9	228.38	250	C	70	115	90	28	15.0
10	252.77	275	C	85	140	90	28	17.0
11	277.25	299	C	85	140	90	28	18.5
12	301.79	324	C	85	140	90	28	20.0
14	351.03	373	C	85	140	90	28	24.2
16	400.38	422	C	85	140	100	28	28.6
18	449.82	472	C	85	140	100	28	32.0
20	499.31	521	C	85	140	100	28	37.0
24	598.42	620	C	85	140	115	28	48.0

For No. 4124 (pitch 103.20 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
8	269.67	301	C	85	140	115	32	16.0
9	301.74	333	C	85	140	115	32	22.0
10	333.97	365	C	85	140	115	32	27.0
12	398.73	430	C	95	150	115	32	32.0
14	463.78	495	C	95	150	125	32	44.7
16	528.98	560	C	95	150	125	32	51.3
18	594.31	625	C	100	165	140	32	69.0
20	659.70	691	C	100	165	140	32	80.0
24	790.65	822	C	100	165	140	32	100.0

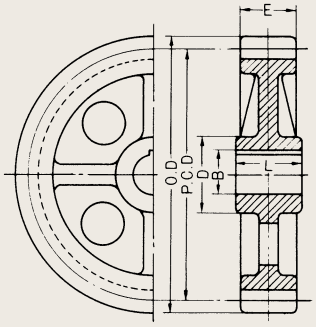
For No. 114 (pitch 82.55 mm)

No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		tooth width E (mm)	Mass (kg)
					Diameter D (mm)	Width L (mm)		
8	215.71	245	C	80	130	100	27	11.1
9	241.36	271	C	80	130	100	27	12.6
10	267.14	296	C	80	130	100	27	15.2
12	318.95	348	C	85	140	100	27	24.0
14	370.98	400	C	85	140	100	27	30.0
16	423.13	452	C	85	140	100	27	33.0
18	475.39	505	C	85	140	115	27	42.0
24	632.44	662	C	100	165	125	27	60.0



●Sprockets for 710 Pintle Chains

Note: Dimension E is Dimension E from the table of chain (plain links) dimensions.

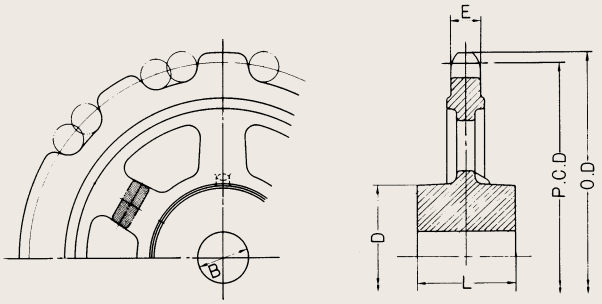


●Sprockets for Drag Chains

Note: Dimension E is Dimension E from the table of chain (plain links) dimensions.

Sprockets for 710 Pintle Chains

Chain No.	No. of Teeth N.T.	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)		Boss		Mass (kg)
					Maximum	Minimum	Diameter D (mm)	Width L (mm)	
710	13	500.97	521	C	100	70	150	110	45.0
	20	766.40	787	C	110	70	170	125	82.0
	24	918.51	939	C	110	70	170	125	100.0



●Sprocket for Combination Chains

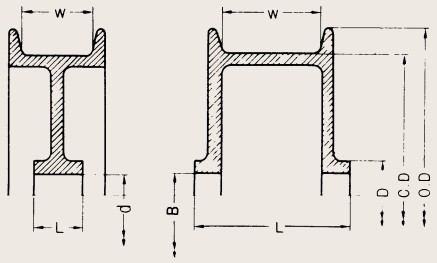
Note: Dimension E is Dimension E from the table of chain (plain links) dimensions.

For No. 55 (pitch 41.43 mm)

Chain No.	No. of Teeth N.T.	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		Mass (kg)
						Diameter D (mm)	Width L (mm)	
C102½	10	332.09	357	C	75	150	110	26.0
	14	461.17	486	C	75	150	110	42.0
	16	526.01	551	C	75	150	110	50.0
C110	9	445.59	470	C	75	150	110	36.0
	10	493.18	518	C	75	150	110	40.0
	11	540.94	565	C	75	150	110	44.0
	13	636.82	661	C	85	170	125	59.0
C111	10	391.24	416	C	75	150	110	36.0
	13	505.19	530	C	75	150	110	52.0
	16	619.71	645	C	85	170	125	70.0

Sprockets for DC type Drag Chains

Chain No.	No. of Teeth N	Pitch Circle Diameter P.C.D. (mm)	Outer Diameter O.D. (mm)	Shaft Hole Diameter B (mm)	Boss		Mass (kg)
					Diameter D (mm)	Width L (mm)	
DC507	6	254.00	281	65	120	100	27.3
	7	292.71	319	65	120	100	31.7
	8	331.86	358	65	120	100	36.3
	9	371.32	398	65	120	100	40.6
DC607	6	304.80	331	80	150	130	40.0
	7	351.25	378	80	150	130	47.3
	8	398.24	425	80	150	130	51.8
	9	445.59	472	80	150	130	57.0
DC613	6	304.80	331	65	130	210	65.8
	7	351.25	378	65	130	210	78.4
	8	398.24	425	65	130	210	89.8
	9	445.59	472	65	130	210	101.8
DC816	6	406.40	438	80	140	200	97.0
	7	468.34	500	80	140	200	114.0
	8	530.98	562	80	140	200	128.0
	9	594.12	629	80	140	200	144.0



A type B type

●End Roller for Drag Chains

End Rollers for Drag Chains

Applicable Chain No.	Contact Face Width (mm)	Wheel Outer Diameter C.D. (mm)	Flange Outer Diameter O.D. (mm)	type	Shaft Hole Diameter B (mm)	Boss		Mass (kg)
						Diameter D (mm)	Width L (mm)	
DC507 DC607	230	300	355	A	60	110	90	56
		350	405	A	60	110	120	95
		460	515	A	60	110	120	135
DC613	355	450	505	A	75	140	140	159
		600	655	A	80	140	140	221
DC816	455	450	535	B	75	140	480	209
		600	680	B	75	140	480	245

How to attach Chains

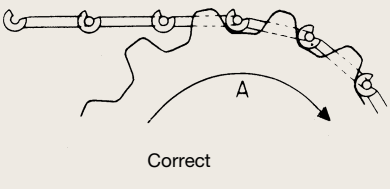
The way the chain is attached to the sprocket can impede its functional operation and accelerate wear of the chain and the sprocket

How to attach Chains

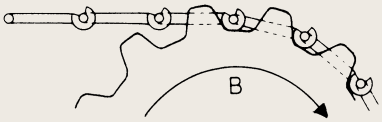
When the chain is on the sprocket and ready to turn, it must be attached so that there is no rotating wear between the barrels of the chain and the sprocket teeth.

If an offset chain (detachable chain or pintle chain) is used with a conveyor, and the sprocket meshes with the chain as shown in Figure A on the right at the driving sprocket, where there is the highest load, the only wear is between the pin and pin hole of the chain. If the chain and sprocket are meshed as shown in Figure B on the right, there is also friction between the chain barrels and the sprocket teeth, which causes accelerated tooth wear.

With non-offset chains (steel bushed chains, combination chains) alternate teeth are worn, so it is better to use the odd-numbered teeth.



Correct



Incorrect