

ENGINEERING CLASS DRIVE CHAIN

Keep Your Operation Moving with Tsubaki Chain

Tsubaki Drive Chains are designed to exceed the listed ultimate strength ratings. These ratings are very significant. Chains with greater ultimate strength have higher actual yield and greater fatigue strength. With Tsubaki chains, you get extra reserve strength to withstand high shock loads.

Precision Manufacturing Means Greater Fatigue Strength

Tsubaki Engineering Class Drive Chains are built to withstand the most rugged conditions. We use the latest manufacturing and heat-treating techniques to manufacture every component. Each component is carefully machined to close tolerances to ensure precise pitch control for smooth sprocket/chain interaction. That means longer service life for chain and sprockets.

Add the Power of Alloy

When parts require extra hardness, we use alloy steel to make the components. This provides more uniform core strength, which is particularly important for heavy duty applications. Every Tsubaki Drive Chain with an ultimate strength rating higher than 112,000 pounds is made entirely of alloy steel. All Tsubaki Drive Chains are furnished with alloy steel pins.

Reduce Maintenance Costs and Downtime

Tsubaki Drive Chains stand up to the toughest environments for hour after hour of uninterrupted service.

- Optimum strength
- Fatigue resistant
- Pre-tested
- Alloy steel parts
- Press fit construction
- Accurate pitch control

Your equipment is on the line. Count on Tsubaki Chain.



Quality Components

High-Strength Sidebars

Sidebars for Tsubaki Drive Chains with an ultimate strength rating higher than 112,000 pounds are manufactured from alloy steel and are through-hardened. This adds strength and extends the service life of the chain. In addition, our advanced manufacturing techniques ensure accurate hole size and precise pitch control, distributing the load equally and providing smooth sprocket interaction.



Alloy Steel Induction Hardened Pins

All Drive Chain pins are made from alloy steel and are through-hardened for toughness and strength. In addition, chains designed for heavy duty power shovel applications have ground bearing surfaces and full round induction hardening. This provides the best combination of high yield strength and superior wear resistance.



Precision Machined Bushings

Bushings for Drive Chain are precision machined to provide smooth bearing surfaces—that means less resistance on-line. They are through-hardened or case hardened to meet your application. The result is smooth riding bushings that last.

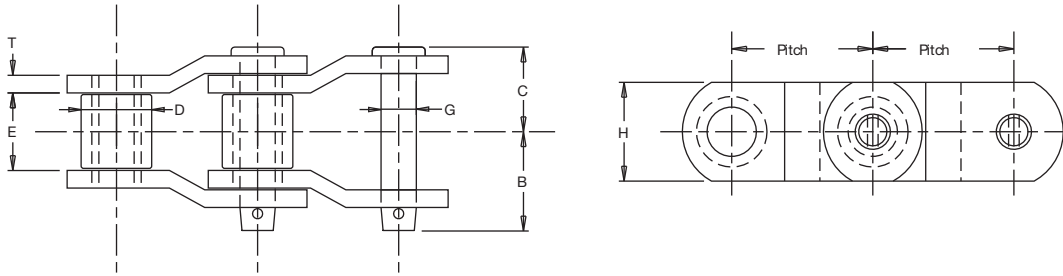


Shock-Resistant Rollers

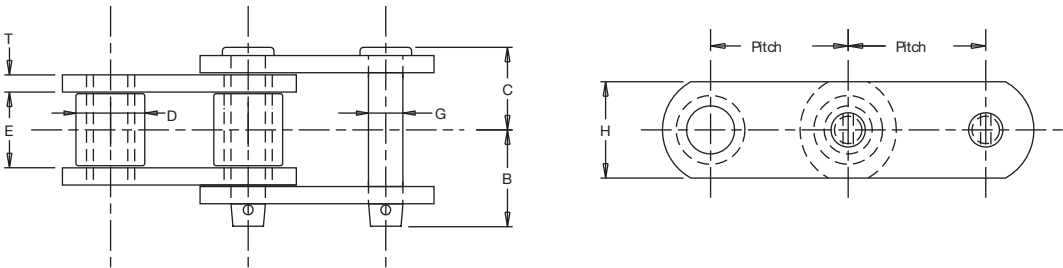
Our rollers are made from a high quality material for use when critical tolerances and superior finish are required. Then they are through-hardened to withstand high shock loads. For chains with high ultimate strength ratings, rollers are typically made from alloy steel.



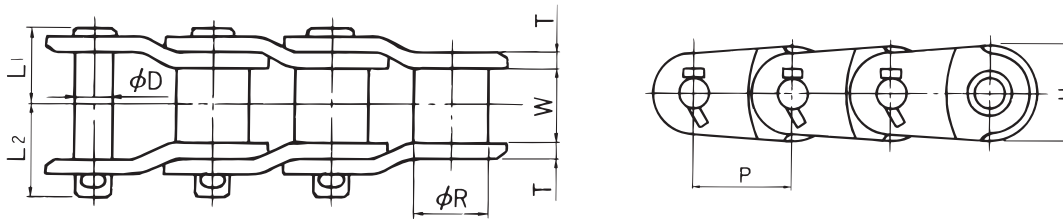
offset sidebar style



straight sidebar style



“U” sidebar style



Section C

Drive Chain Specifications

All dimensions are in inches unless otherwise indicated.

Chain No.	Pitch	Sty. ¹	ANSI No.	Pin						Roller		Sidebar			Bushing		Stocked Lengths		Avg. Ult. Stgth. (lbs.)	Max. Work Load (lbs.)	Approx. Wgt. (lbs./ft.)
				Pin End to CL	Pin Head to CL	In-side Wdth.	Dia.	Sty. ²	Mati. ³	Dia.	Mati. ³	Hgt.	Th.	Mati. ³	Dia.	Mati. ³	Pitches	Feet			
				B	C	E	G			D		H	T								
US-2065	2.000	O		1.66	1.44	1.27	.59	K	AHT	1.13	AHT	1.63	.31	AHT	.81	ACH	60	10.00	65,000	4,000	7.6
RO-3140	1.750	U		1.34	1.12	1.00	.48	K	AHT	1.00	AHT	1.70	.22	AHT	.70	ACH	69	10.00	52,800	2,500	5.2
RO-3160	2.000	U		1.53	1.31	1.25	.54	K	AHT	1.13	AHT	1.94	.25	AHT	.80	ACH	60	10.00	67,300	3,450	6.7
RO-3180	2.250	U		1.72	1.47	1.43	.69	K	AHT	1.41	AHT	2.13	.28	AHT	1.00	CHT	53	10.00	80,000	4,800	9.6
RO-25H	2.500	O		1.95	1.70	1.50	.65	K	AHTIH	1.25	AHT	1.63	.38	AHT	.91	ACH	48	10.00	87,000	4,900	9.2
520RX	2.563	O		1.44	1.22	1.06	.50	A	CHT	1.13	CHT	1.25	.25	CHT	.75	CCH	47	10.00	25,000	2,800	4.8
US-882	2.609	O		1.44	1.25	1.13	.44	K	CHT	.88	AHT	1.13	.25	CHT	.64	CCH	46	10.00	26,000	2,500	3.6
US-3011	3.067	O	2512	2.13	1.72	1.56	.75	K	AHTIH	1.63	AHT	2.25	.38	AHT	1.13	ACH	39	10.00	110,000	6,100	12.0
US-1030	3.075	O		1.88	1.56	1.50	.63	K	AHT	1.25	AHT	1.50	.31	HC	.91	ACH	39	10.00	28,000	4,650	7.0
US-1031	3.075	O		1.88	1.59	1.50	.63	K	AHT	1.25	AHT	1.50	.31	CHT	.91	ACH	39	10.00	48,000	4,650	7.0
US-3075	3.075	O		2.00	1.68	1.50	.65	K	AHT	1.25	AHT	1.75	.38	AHT	.91	ACH	39	10.00	75,000	5,100	9.6
US-3514	3.500	O	2814	2.34	1.97	1.50	.88	K	AHT	1.75	AHT	2.25	.50	AHT	1.25	ACH	34	9.90	140,000	7,700	16.1
US-1241	4.063	O		2.59	2.19	1.94	.88	K	AHTIH	1.75	AHT	2.25	.50	CHT	1.25	CCH	30	10.20	112,000	9,000	16.3
US-1242	4.063	O		2.56	2.19	1.94	.88	K	AHTIH	1.75	AHT	2.25	.50	AHT	1.25	ACH	30	10.20	140,000	9,000	16.1
US-1245	4.073	O	3315	2.75	2.38	1.94	.94	K	AHTIH	1.78	AHT	2.38	.56	AHT	1.31	ACH	30	10.20	170,000	10,100	18.0
US-4121	4.090	O		2.75	2.38	1.94	1.00	K	AHTIH	1.88	AHT	2.75	.56	AHT	1.49	AHT	30	10.20	210,000	10,700	13.6
US-4122	4.090	O		2.75	2.38	1.94	1.00	K	AHTIH	2.00	AHT	2.75	.56	AHT	1.49	AHT	30	10.20	210,000	10,700	14.0
US-4522	4.500	O	3618	2.88	2.44	2.06	1.10	K	AHTIH	2.25	AHT	3.00	.56	AHT	1.62	AHT	27	10.10	220,000	12,300	25.4
US-5031	5.000	O	4020	3.38	3.06	2.75	1.25	K	AHTIH	2.50	AHT	3.50	.63	AHT	1.75	AHT	24	10.00	310,000	17,500	34.0
US-5035	5.000	O		3.50	3.06	2.56	1.38	K	AHTIH	2.50	AHT	3.50	.75	AHT	1.88	AHT	24	10.00	350,000	19,600	38.1
US-5542	5.500	O		3.88	3.40	3.00	1.50	K	AHTIH	3.00	AHT	4.00	.75	AHT	2.00	AHT	62	28.40	420,000	23,600	49.1
US-5738	5.750	O		3.69	3.31	3.00	1.50	K	AHTIH	3.00	AHT	4.00	.69	AHT	2.00	AHT	21	10.10	380,000	23,000	46.0
US-6042	6.000	O	4824	3.88	3.40	3.00	1.50	K	AHTIH	3.00	AHT	4.00	.75	AHT	2.00	AHT	20	10.00	420,000	23,600	45.0
US-6066	6.000	O		3.88	3.38	3.00	1.75	K	AHTIH	—	—	4.75	.75	AHT	3.00	AHT	57	28.50	600,000	27,600	51.7
US-64S	2.500	S		2.00	1.69	1.50	.88	K	AHT	1.56	AHT	2.13	.38	AHT	1.19	ACH	48	10.00	125,000	6,900	13.1
344SXX	3.000	S		2.75	2.38	1.94	.94	K	AHTIH	1.78	AHT	2.38	.56	AHT	1.31	AHT	40	10.00	170,000	10,050	22.0
US-4031	4.000	S		3.38	2.91	2.75	1.25	K	AHTIH	2.50	AHT	3.50	.63	AHT	1.75	AHT	30	10.00	310,000	17,500	40.0
US-1353	4.090	S		3.13	2.69	2.25	1.31	K	AHTIH	2.63	AHT	3.50	.63	AHT	1.88	ACH	30	10.20	210,000	16,000	37.6
US-5042	5.000	S		3.88	3.40	3.00	1.50	K	AHTIH	3.00	AHT	4.00	.75	AHT	2.00	AHT	24	10.00	420,000	23,600	53.0
US-6566	6.500	S		4.38	3.95	3.25	1.75	K	AHTIH	3.50	AHT	6.00	.88	AHT	2.44	AHT	36	19.50	600,000	30,600	71.1
US-7080	7.000	S		4.19	3.81	3.25	2.13	K	AHTIH	4.50	AHT	6.00	.88	AHT	3.13	AHT	24	14.00	800,000	37,150	89.6

¹Style: O= offset sidebar; S= straight sidebar

²Pin style: K = Full round; A = Double flat.

³Material: HC = High carbon; CHT = Carbon heat-treated; AHT = Alloy heat-treated; AHTIH = Alloy heat-treated and induction hardened; CCH = Carbon case hardened; ACH = Alloy case hardened.

To locate compatible sprockets for your chain, refer to the Product Cross-Reference at the back of this section.

Note: Dimensions are subject to change. Contact Tsubaki Technical Support to obtain certified prints for design and construction.