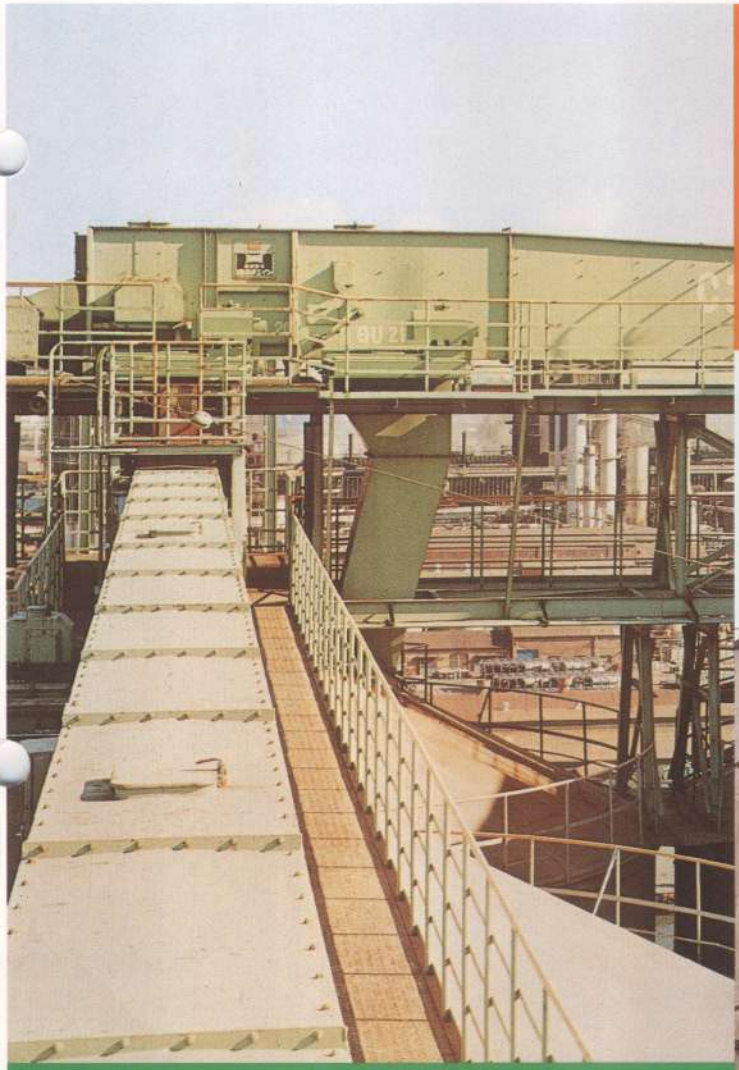
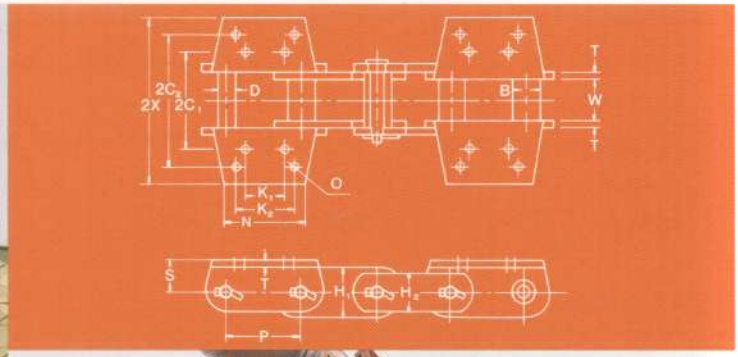
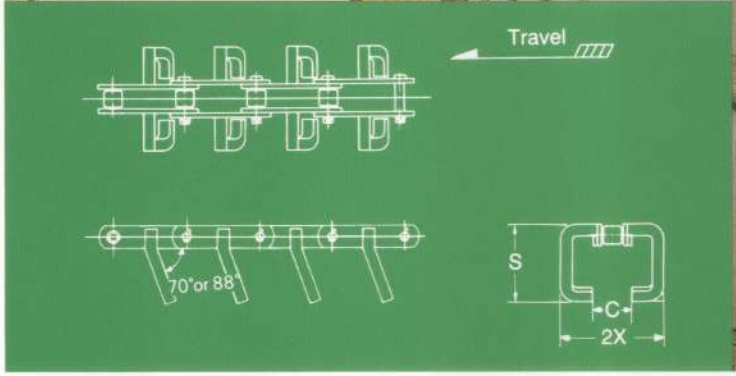
TSUBAKI

TSUBAKI CEMENT MILL CHAINS



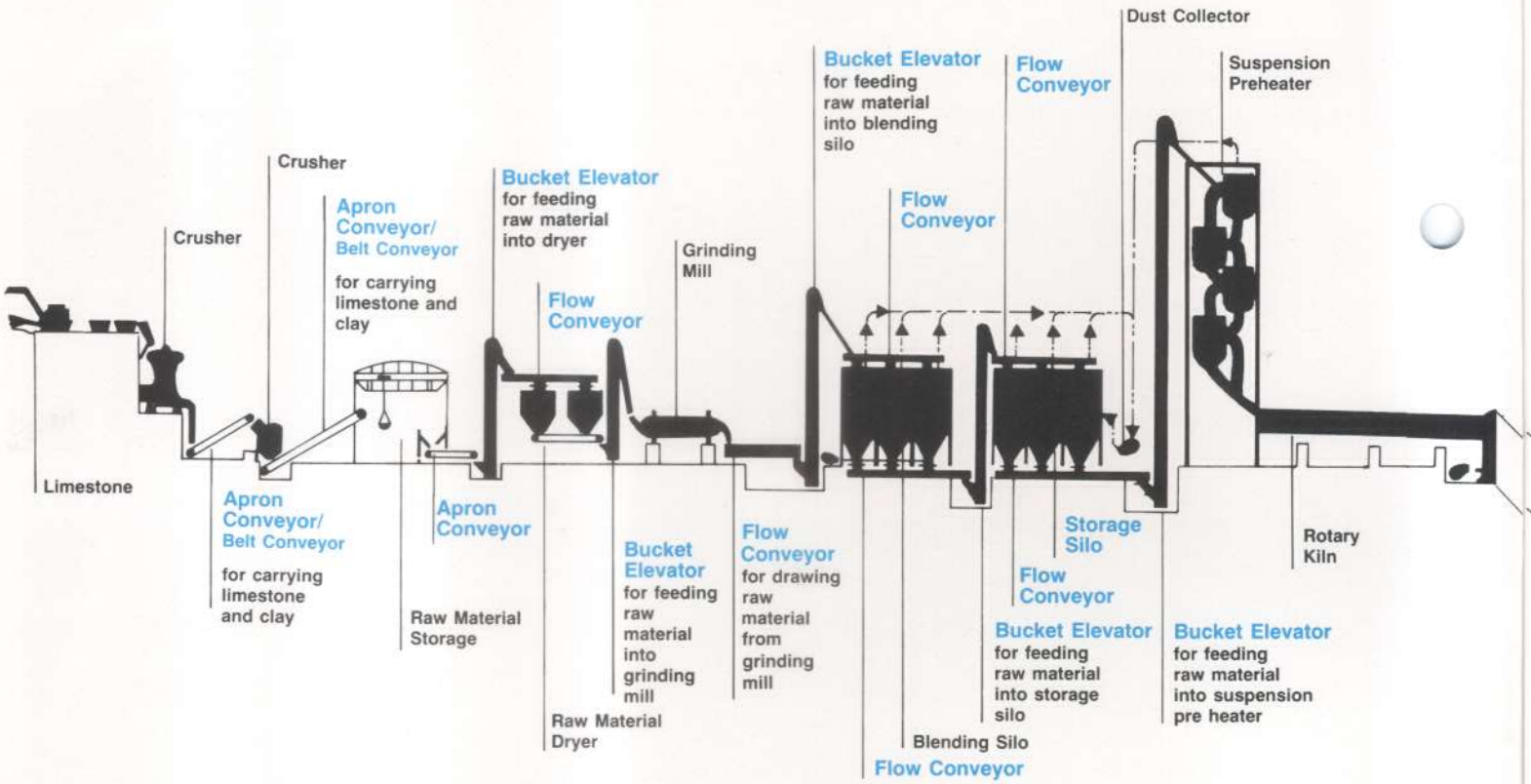




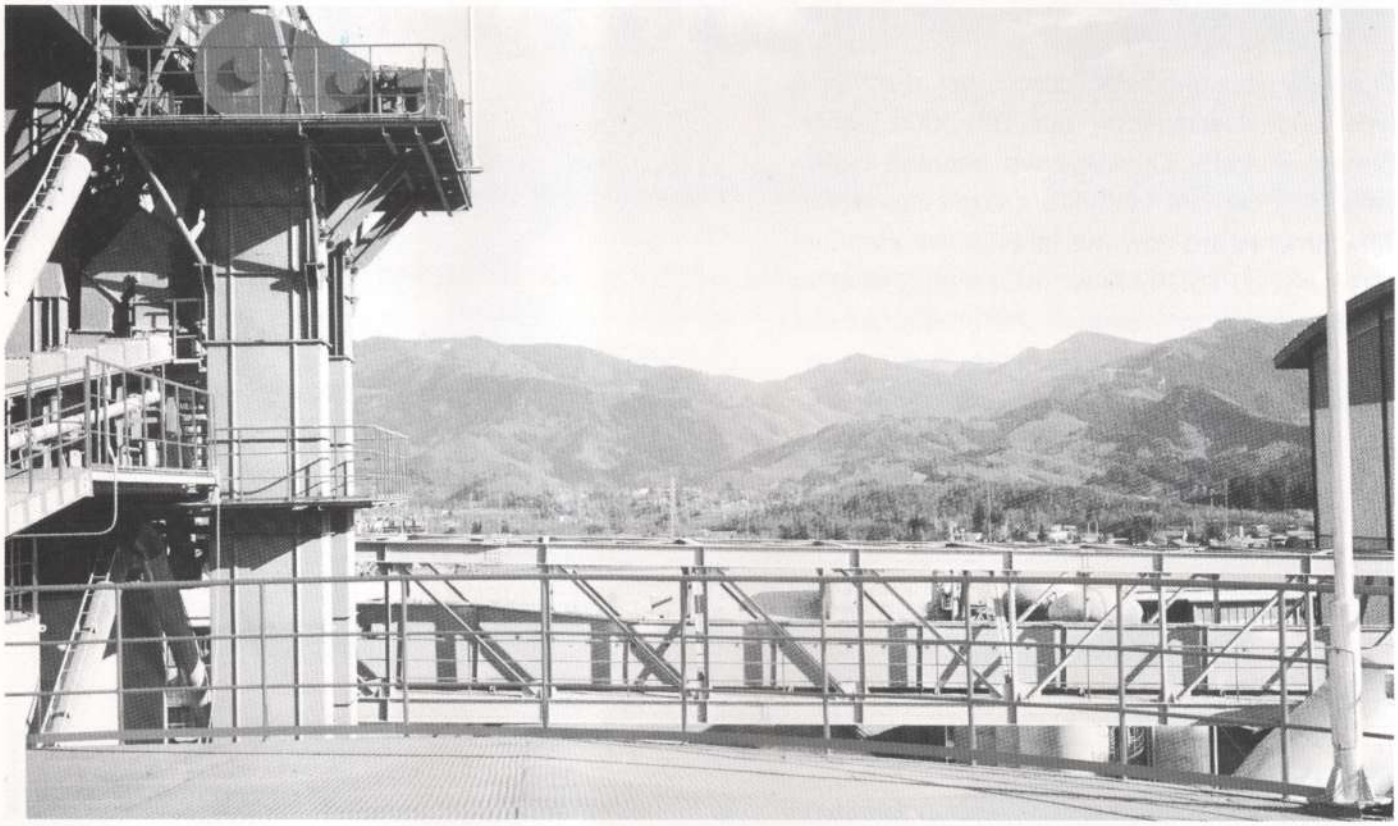
Cement Mill Chains That Tackle the Job

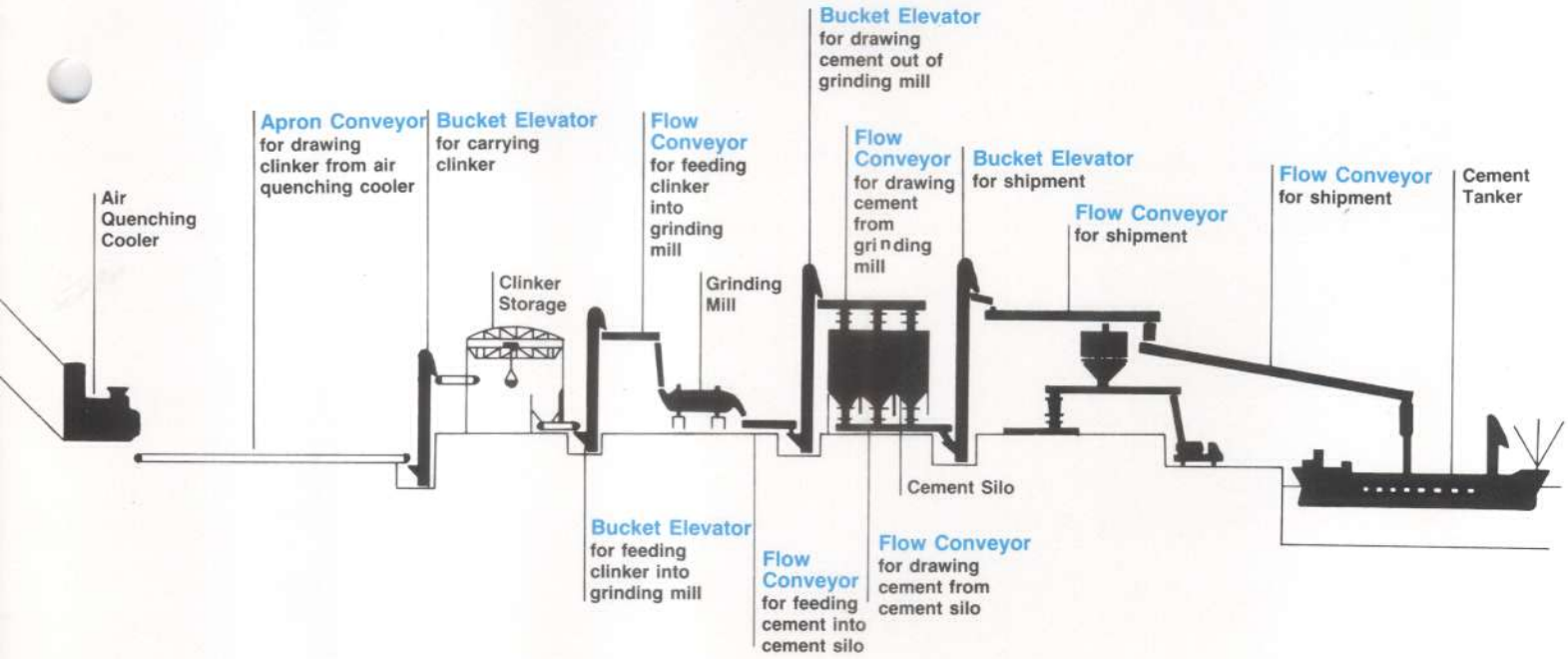
Since the TSUBAKIMOTO CHAIN CO. was founded in 1917, we have dedicated our total efforts to the design and manufacture of products which are the ultimate in quality, surpassing those produced elsewhere in the world. The reputation for the excellent quality of TSUBAKI bucket elevator and flow conveyor systems has grown remarkably. TSUBAKI is proud to be able to meet its customer's strictest requirements for handling bulk materials like cement with dependability and efficiency. TSUBAKI steel chains listed in this catalog are designed by TSUBAKI's qualified and experienced engineers for bucket elevators which handle cement, clinker, and crushed limestone, etc., in the cement mill. To provide the greater fatigue strength and wear resistance needed for cement mill elevators, TSUBAKI standard chains have induction hardened pins, case hardened bushings, and shot peened link plates.

MANUFACTURING PROCESS FOR PORTLAND CEMENT DRY SYSTEM



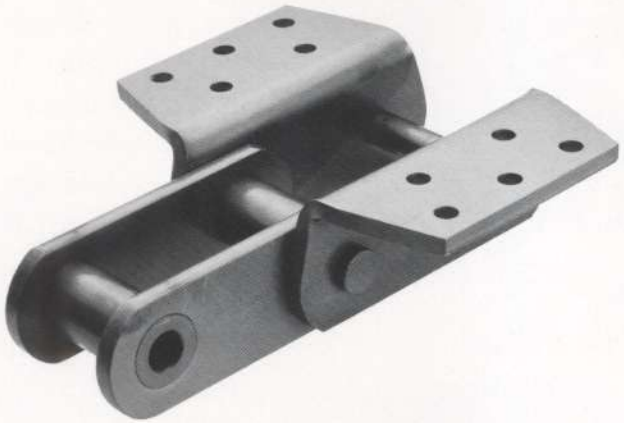
The Working Choice





Tsubaki BF Type Bucket Elevator Chains

Specially designed for centrifugal discharge type bucket elevators, our BF 3000 series Bucket Elevator Chains have become highly valued in cement factories around the world. Attachments are now available in five standardized styles. TSUBAKI will also supply special attachments upon request. For greater tensile and fatigue strength plus higher wear resistance, Special Series Bucket Elevator Chains are available.



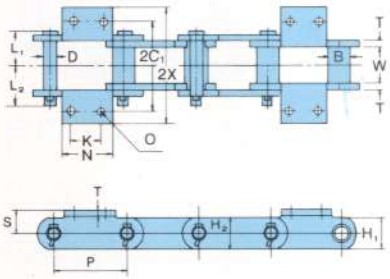
Dimensions

Dimensions in mm (inch)

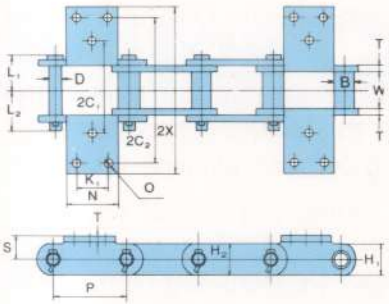
TSUBAKI Chain No.	Pitch P	Average Tensile Strength kN	{kgf} (lbs.)	Bushing Dia. B	Width Between Inner Link Plates W	Link Plate H_1	Link Plate H_2	Link Plate T	Pin D	Pin L_1	Pin L_2	Approx. Mass kg/m (lbs./ft.)
BF2856	152.4 (6.00)	539	{55,000} (121,000)	44.5 (1.75)	76.2 (3.00)	63.5 (2,50)	63.5 (2.50)	12.7 (0.50)	25.4 (1.00)	72.5 (2.85)	83.0 (3.27)	24.5 (16.4)
BF3856		647	{66,000} (146,000)									
BF2857	152.4 (6.00)	637	{65,000} (143,000)	44.5 (1.75)	76.2 (3.00)	82.6 (3.25)	63.5 (2.50)	12.7 (0.50)	25.4 (1.00)	72.5 (2.85)	83.0 (3.27)	30 (20.1)
BF3857		774	{79,000} (174,000)									
BF2859	152.4 (6.00)	902	{92,000} (203,000)	60.3 (2.37)	95.3 (3.75)	101.6 (4.00)	76.2 (3.00)	16 (0.63)	31.75 (1.25)	91.0 (3.58)	99.0 (3.90)	51 (34.2)
BF3859		1180	{120,000} (265,000)									
BF2864	177.8 (7.00)	931	{95,000} (209,000)	60.3 (2.37)	95.3 (3.75)	101.6 (4.00)	90.0 (3.54)	16 (0.63)	31.75 (1.25)	91.0 (3.58)	99.0 (3.90)	51 (34.2)
BF3864		1230	{125,000} (276,000)									

Note: The Average Tensile Strength (lbs.) is converted from {kgf} and rounded off.

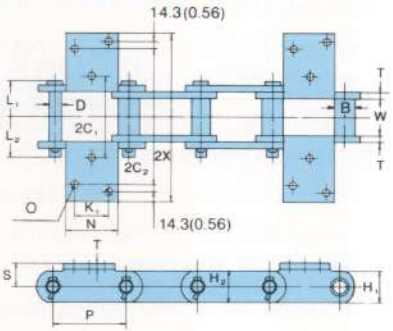
K-24 Attachment



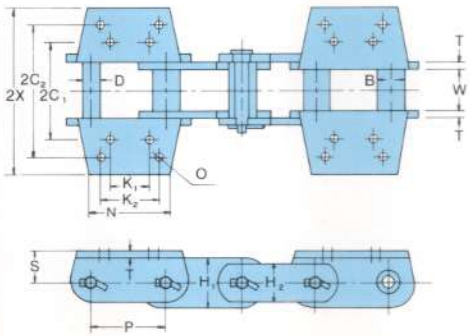
K-35 Attachment



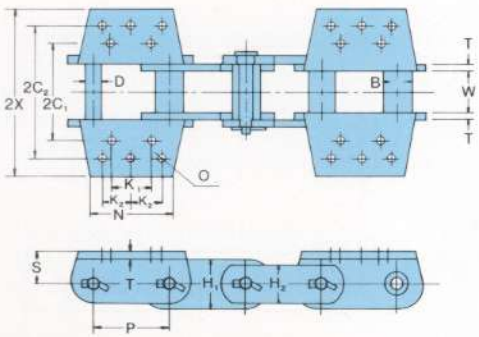
K-3 Attachment



K-44 Attachment



K-443 Attachment



Attachments

Dimensions in mm (inch)

Attachment Style	TSUBAKI Chain No.	Pitch P	Attachment S	$2C_1$	$2C_2$	2X	K_1	K_2	N	T	O	Approx. Additional Mass per Attachment kg/att.(lbs./att.)
K-24	BF2856 BF3856	152.4 (6.00)	47.6 (1.88)	184.2 (7.25)	———	241 (9.49)	63.5 (2.50)	———	108 (4.25)	12.7 (0.50)	18 (0.71)	1.5 (3.3)
K-3	BF2856 BF3856	152.4 (6.00)	47.6 (1.88)	166.7 (6.56)	277.8 (10.94)	344 (13.56)	70 (2.75)	———	108 (4.25)	12.7 (0.50)	15 (0.59)	2.8 (6.2)
K-35	BF2856 BF3856	152.4 (6.00)	47.6 (1.88)	184.2 (7.25)	298.5 (11.75)	344 (13.56)	63.5 (2.50)	———	108 (4.25)	12.7 (0.50)	18 (0.71)	2.8 (6.2)
K-44	BF2857 BF3857	152.4 (6.00)	63.5 (2.50)	177.8 (7.00)	304.8 (12.0)	355.6 (14.0)	88.9 (3.50)	88.9 (3.50)	152.4 (6.00)	12.7 (0.50)	14.3 (0.56)	5.0 (11.0)
K-44	BF2859 BF3859	152.4 (6.00)	76.2 (3.00)	228.6 (9.00)	330.2 (13.0)	381 (15.0)	70 (2.75)	114.5 (4.51)	152.4 (6.00)	16 (0.63)	17.5 (0.69)	5.0 (11.0)
K-443	BF2864 BF3864	177.8 (7.00)	76.2 (3.00)	228.6 (9.00)	330.2 (13.0)	381 (15.0)	95.3 (3.75)	69.85 (2.75)	197 (7.76)	16 (0.63)	17.5 (0.69)	7.5 (16.5)

TSUBAKI CEMENT MILL CHAINS

BF Benefits of 3000 Series

TSUBAKI offers a tough line up of Bucket Elevator Chains (BF 3000 series) specially made for cement mill applications.
The BF 3000 series provides excellent fatigue strength and tensile strength with superb anti-wear resistance.
We recommend the BF 3000 series for the following conditions:
1) For severe wear conditions, i.e., slug cement, alumina, etc.
2) For heavy-duty conditions.
3) Where a long working life is needed.
TSUBAKI BF 3000 series Bucket Elevator Chains have high interchangeability due to high grade materials and highly controlled heat treatment.
A Super Series chain with performance even greater than the BF 3000 series is also available.
Please contact TSUBAKI.

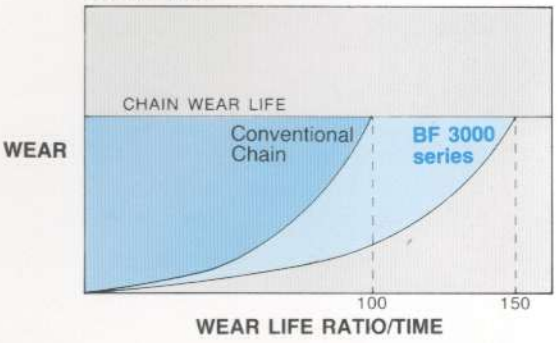
Series	BF 3000 Series
Chain No.	BF3856 BF3857 BF3859 BF3864
Link Plate	Heat-Treated Alloy/Carbon Steel*
Pin	Double Quenched Alloy Steel
Bushing	Special Case Hardened Alloy Steel

* A special process to improve link plate fatigue strength has been developed by TSUBAKI.

Wear Life

TSUBAKI BF 3000 series have almost 1½ times greater wear life than standard chains used in cement mills.
TSUBAKI uses the latest production technology, advanced heat-treatment methods, and first rate materials to achieve smooth running and a long wear life.

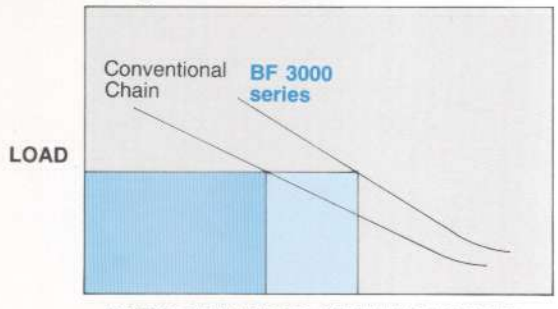
Wear Life



Fatigue Strength

TSUBAKI BF 3000 series are produced from quality materials for greater fatigue strength. Link plates are specially processed and holes are pierced using sophisticated machining techniques to give TSUBAKI BF 3000 series reliable durability.

Fatigue Strength

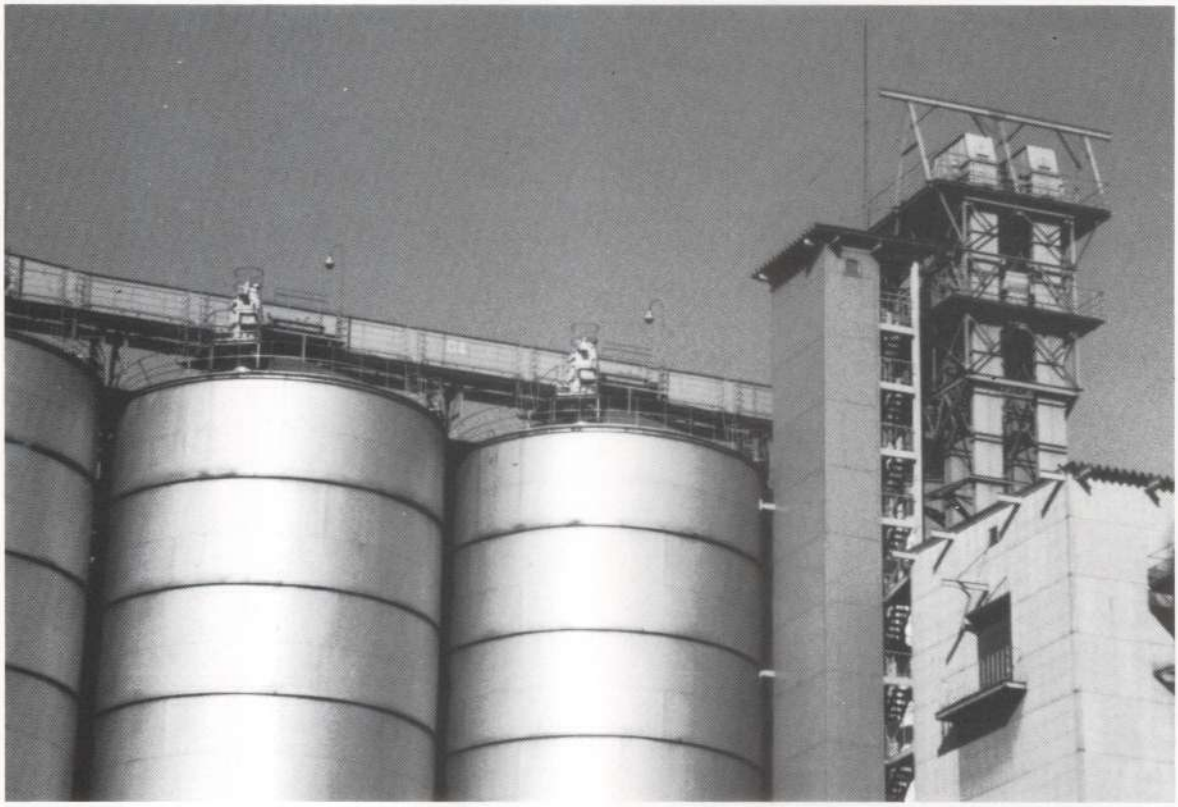


RF Type Bucket Elevator Chains

RF Type chains

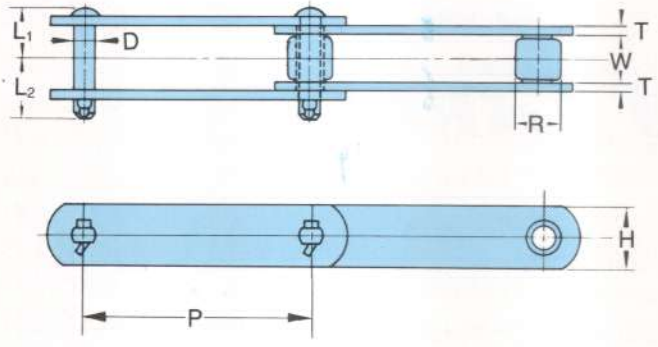
RF type chain is for Continuous Discharge Type Bucket Elevators.
G-4 (I) attachment is used for high capacity and slow speed elevators.
G-4 (II) attachment is used for high capacity and comparatively high speed elevators.
(G-4 (I) and G-4 (II) att. are used for double strands.)
CT series chain is specially designed for bucket elevators used at cement plants. For heavier applications, BT series reinforced chain is recommended.

Type	Standard (CT)	Reinforced (BT)
Link Plate	Carbon Steel	Heat-treated Alloy Steel
Pin	Double Quenched Alloy Steel Case Hardened Alloy Steel	Double Quenched Alloy Steel Case Hardened Alloy Steel
Bushing	Case Hardened Carbon Steel Heat Treated Alloy Steel	Heat-treated Alloy Steel
Roller	Case Hardened Carbon Steel Heat Treated Alloy Steel	Heat-treated Alloy Steel

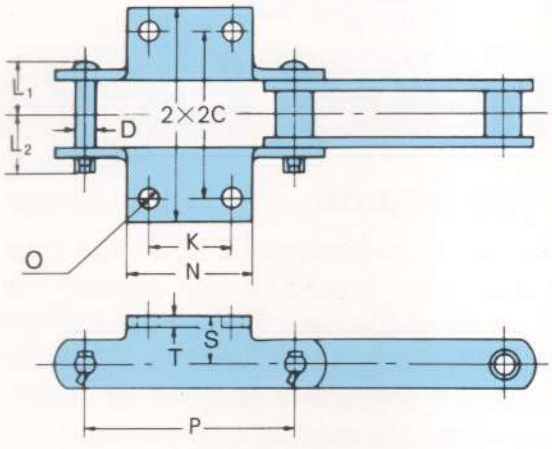


TSUBAKI CEMENT MILL CHAINS

Base Chain



K-2 Attachment



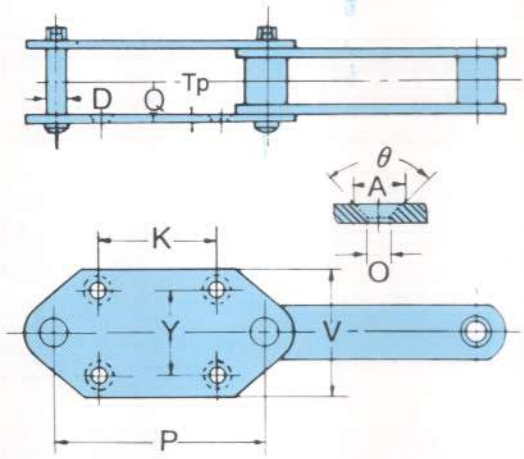
Dimensions

Dimensions in mm (inch)

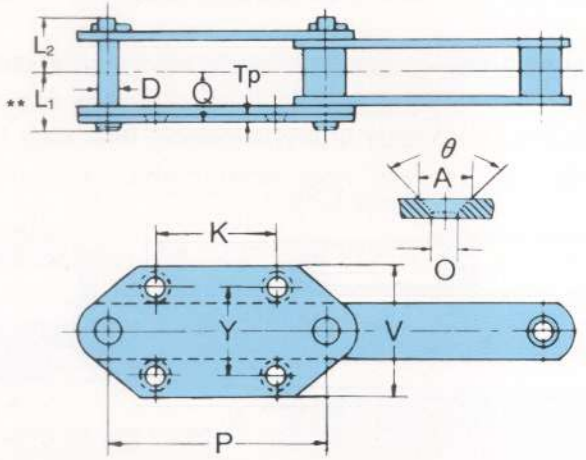
TSUBAKI Chain No.	Pitch P	* Roller Dia. R	Width Between Roller Link Plates W	Link Plate H	Link Plate T	Pin D	Pin L_1	Pin L_2	Average Tensile Strength CT Series kN	CT Series {kgf} (lbs.)	BT Series kN	BT Series {kgf} (lbs.)
B08004S	101.6 (4.000)	22.2 (0.88)	27 (1.06)	28.6 (1.13)	6.3 (0.25)	11.3 (0.446)	31 (1.22)	34.5 (1.36)	86	{8,800} (19,500)	98	{10,000} (22,000)
B08125S	125 (4.921)	22.2 (0.88)	27 (1.06)	28.6 (1.13)	6.3 (0.25)	11.3 (0.446)	31 (1.22)	34.5 (1.36)	86	{8,800} (19,500)	98	{10,000} (22,000)
B10125S	125 (4.921)	29 (1.14)	30 (1.22)	38.1 (1.50)	6.3 (0.25)	14.5 (0.571)	33 (1.30)	36 (1.42)	123	{12,500} (27,500)	225	{23,000} (50,500)
B10150S	150 (5.906)	29 (1.14)	30 (1.22)	38.1 (1.50)	6.3 (0.25)	14.5 (0.571)	33 (1.30)	36 (1.42)	123	{12,500} (27,500)	225	{23,000} (50,500)
B12006S	152.4 (6.000)	34.9 (1.37)	37.1 (1.46)	44.5 (1.75)	7.9 (0.31)	15.9 (0.625)	40.5 (1.59)	43 (1.70)	186	{19,000} (42,000)	279	{28,500} (62,500)
B12200S	200 (7.874)	34.9 (1.37)	37.1 (1.46)	44.5 (1.75)	7.9 (0.31)	15.9 (0.625)	40.5 (1.59)	43 (1.70)	186	{19,000} (42,000)	279	{28,500} (63,000)
B17200S	200 (7.874)	40.1 (1.58)	51.4 (2.02)	50.8 (2.00)	9.5 (0.37)	19.1 (0.750)	51.5 (2.03)	58 (2.28)	245	{25,000} (55,000)	387	{39,500} (87,000)
B26200N	200 (7.874)	50.8 (2.00)	57.2 (2.25)	63.5 (2.50)	9.5 (0.37)	24.0 (0.945)	56 (2.20)	61 (2.40)	299	{30,500} (67,000)	564	{57,500} (126,500)
B17250S	250 (9.842)	40.1 (1.58)	51.4 (2.02)	50.8 (2.00)	9.5 (0.37)	19.1 (0.750)	51.5 (2.03)	58 (2.28)	245	{25,000} (55,000)	387	{39,500} (87,000)
B26250N	250 (9.842)	50.8 (2.00)	57.2 (2.25)	63.5 (2.50)	9.5 (0.37)	24.0 (0.945)	56 (2.20)	61 (2.40)	299	{30,500} (67,000)	564	{57,500} (126,500)
B36250N	250 (9.842)	57.2 (2.25)	66.7 (2.63)	76.2 (3.00)	12.7 (0.50)	28.0 (1.102)	69 (2.72)	78 (3.07)	—		867	{88,500} (195,000)
B26300N	300 (11.811)	50.8 (2.00)	57.2 (2.25)	63.5 (2.50)	9.5 (0.37)	24.0 (0.945)	** 68.5 ** (2.70)	61 (2.40)	299	{30,500} (67,000)	564	{57,500} (126,500)
B36300N	300 (11.811)	57.2 (2.25)	66.7 (2.63)	76.2 (3.00)	12.7 (0.50)	28.0 (1.102)	** 81 ** (3.19)	78 (3.07)	—		867	{88,500} (195,000)
B60300N	300 (11.811)	70 (2.76)	77 (3.03)	90 (3.54)	12.7 (0.50)	35.0 (1.378)	** 88 ** (3.46)	84 (3.31)	—		1040	{106,000} (234,000)
B36350N	350 (13.779)	57.2 (2.25)	66.7 (2.63)	76.2 (3.00)	12.7 (0.50)	28.0 (1.102)	** 81 ** (3.19)	78 (3.07)	—		867	{88,500} (195,000)
B60350N	350 (13.779)	70 (2.76)	77 (3.03)	90 (3.54)	12.7 (0.50)	35.0 (1.378)	** 88 ** (3.46)	84 (3.31)	—		1040	{106,000} (234,000)
B90350N	350 (13.779)	85 (3.35)	88 (3.46)	110 (4.33)	16 (0.63)	42.0 (1.654)	** 101.5 ** (4.00)	95.5 (3.76)	—		1630	{166,000} (366,000)
B60400N	400 (15.748)	70 (2.76)	77 (3.03)	90 (3.54)	12.7 (0.50)	35.0 (1.378)	** 88 ** (3.46)	84 (3.31)	—		1040	{106,000} (234,000)
B90400N	400 (15.748)	85 (3.35)	88 (3.46)	110 (4.33)	16 (0.63)	42.0 (1.654)	** 101.5 ** (4.00)	95.5 (3.76)	—		1630	{166,000} (366,000)
B120400N	400 (15.748)	100 (3.94)	100 (3.94)	130 (5.12)	19 (0.75)	50.0 (1.969)	** 119.5 ** (4.70)	108 (4.25)	—		2210	{225,000} (496,000)

Note: * S.M. and N rollers are available.
** L_1 dimension for G-4(II) attachment pin links.
The Average Tensile Strength (lbs.) is converted from {kgf} and rounded off.

G-4 (I) Attachment



G-4 (II) Attachment



Attachments

Dimensions in mm (inch)

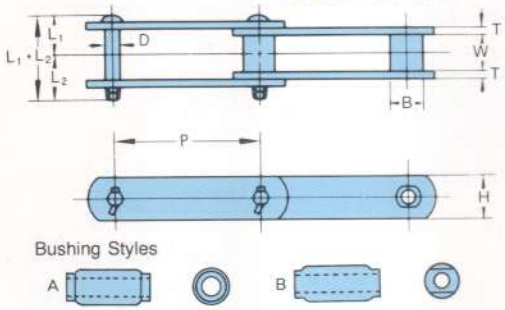
TSUBAKI Chain No.	Style	Attachment S	2C	2X	K	N	T	O	Mass of Chain With Att. Every 2nd link kg/m (lbs./ft.)
B08004S	K-2	28 (1.10)	100 (3.94)	128 (5.04)	40 (1.57)	70 (2.76)	6.3 (0.25)	12 (0.47)	6.4 (4.30)
B08125S		28 (1.10)	100 (3.94)	128 (5.04)	50 (1.97)	75 (2.95)	6.3 (0.25)	12 (0.47)	5.7 (3.83)
B10125S		28 (1.10)	100 (3.94)	130 (5.12)	50 (1.97)	75 (2.95)	6.3 (0.25)	12 (0.47)	7.7 (5.17)
		Q	Y	V	K	Tp	A	O	θ	
B10150S	G-4 (I)	28.5 (1.12)	70 (2.76)	110 (4.33)	75 (2.95)	6.3 (0.25)	26 (1.02)	15 (0.59)	90°	7.0 (4.70)
B12006S		35.5 (1.40)	70 (2.76)	110 (4.33)	75 (2.95)	7.9 (0.31)	26 (1.02)	15 (0.59)	90°	11.0 (7.39)
B12200S		35.5 (1.40)	80 (3.15)	120 (4.72)	100 (3.94)	7.9 (0.31)	26 (1.02)	15 (0.59)	90°	10.2 (6.85)
B17200S		45.5 (1.79)	80 (3.15)	120 (4.72)	100 (3.94)	9.5 (0.37)	26 (1.02)	15 (0.59)	90°	14.0 (9.40)
B26200N		48 (1.89)	80 (3.15)	120 (4.72)	100 (3.94)	9.5 (0.37)	26 (1.02)	15 (0.59)	90°	18.3 (12.29)
B17250S		45.5 (1.79)	100 (3.94)	150 (5.91)	140 (5.51)	9.5 (0.37)	32 (1.26)	19 (0.75)	90°	14.5 (9.74)
B26250N		48 (1.89)	100 (3.94)	150 (5.91)	140 (5.51)	9.5 (0.37)	32 (1.26)	19 (0.75)	90°	17.8 (11.96)
B36250N		60 (2.36)	100 (3.94)	150 (5.91)	140 (5.51)	12.7 (0.50)	32 (1.26)	19 (0.75)	90°	27.5 (18.47)
B26300N	G-4 (II)	60 (2.36)	140 (5.51)	200 (7.87)	170 (6.69)	12 (0.47)	38 (1.50)	24 (0.94)	90°	22.5 (15.11)
B36300N		72 (2.83)	140 (5.51)	200 (7.87)	170 (6.69)	12 (0.47)	38 (1.50)	24 (0.94)	90°	31.4 (21.09)
B60300N		77 (3.03)	140 (5.51)	200 (7.87)	170 (6.69)	12 (0.47)	38 (1.50)	24 (0.94)	90°	39.5 (26.53)
B36350N		72 (2.83)	170 (6.69)	240 (9.45)	200 (7.87)	12 (0.47)	40 (1.57)	28 (1.10)	60°	31.2 (20.96)
B60350N		77 (3.03)	170 (6.69)	240 (9.45)	200 (7.87)	12 (0.47)	40 (1.57)	28 (1.10)	60°	38.8 (26.06)
B90350N		89.5 (3.52)	170 (6.69)	240 (9.45)	200 (7.87)	12 (0.47)	40 (1.57)	28 (1.10)	60°	57.8 (38.83)
B60400N		81 (3.19)	200 (7.87)	280 (11.02)	230 (9.06)	16 (0.63)	50 (1.97)	35 (1.38)	60°	42.8 (28.75)
B90400N		93.5 (3.68)	200 (7.87)	280 (11.02)	230 (9.06)	16 (0.63)	50 (1.97)	35 (1.38)	60°	60.8 (40.84)
B120400N		105.5 (4.15)	200 (7.87)	280 (11.02)	230 (9.06)	16 (0.63)	50 (1.97)	35 (1.38)	60°	82.2 (55.22)

ANSI Bushed Chains

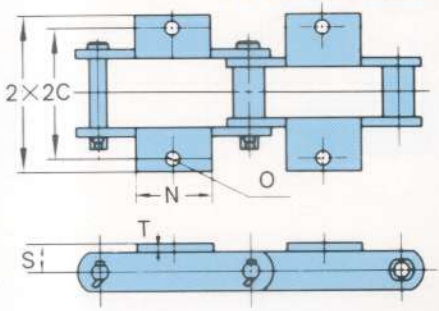
BF chains are primarily used in bucket elevators and conveyors where adverse conditions require a heavy-duty chain.

BF chains are completely interchangeable with cast combination chains and strictly conform to ANSI B29, 12-1974.

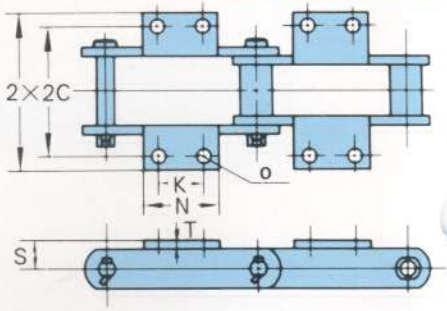
Base Chain



K-1 Attachment



K-2 Attachment



Dimensions

Dimensions in mm (inch)

TSUBAKI		Pitch	Bushing			Link Plate		Pin			Average Tensile Strength kN {kgf} (lbs.)	Approx Mass kg/m (lbs./ft.)
Chain No.	ANSI No.	P	B	W	Style	H	T	D	L_1	L_2		
BF188	S188	66.27 (2.609)	22.2 (0.88)	27.0 (1.06)	B	28.6 (1.13)	6.3 (0.25)	12.70 (0.500)	32.0 (1.26)	35.0 (1.38)	1210 {12,300} (27,000)	5.7 (3.8)
BF131	S131	78.11 (3.075)	31.8 (1.25)	33.3 (1.31)	A	38.1 (1.50)	9.5 (0.37)	15.88 (0.625)	41.5 (1.63)	44.5 (1.75)	186 {19,000} (42,000)	11.0 (7.4)
BF102B	S102B	101.60 (4.000)	25.4 (1.00)	54.0 (2.13)	A	38.1 (1.50)	9.5 (0.37)	15.88 (0.625)	52.5 (2.07)	55.0 (2.17)	186 {19,000} (42,000)	10.3 (7.0)
BF111	S111	120.90 (4.760)	36.5 (1.44)	66.7 (2.63)	A	50.8 (2.00)	9.5 (0.37)	19.05 (0.750)	59.5 (2.34)	66.5 (2.62)	225 {23,000} (50,500)	16.5 (11.0)
BF110	S110	152.40 (6.000)	31.8 (1.25)	54.0 (2.13)	A	38.1 (1.50)	9.5 (0.37)	15.88 (0.625)	52.5 (2.07)	55.0 (2.17)	186 {19,000} (42,000)	9.4 (6.3)
BF150	S150	153.67 (6.050)	44.5 (1.75)	84.1 (3.31)	A	63.5 (2.50)	12.7 (0.50)	25.40 (1.000)	76.5 (3.01)	84.5 (3.33)	445 {45,400} (100,000)	25.0 (16.8)

Note: The Average Tensile Strength (lbs.) is converted from {kgf} and rounded off.

Attachments

Dimensions in mm (inch)

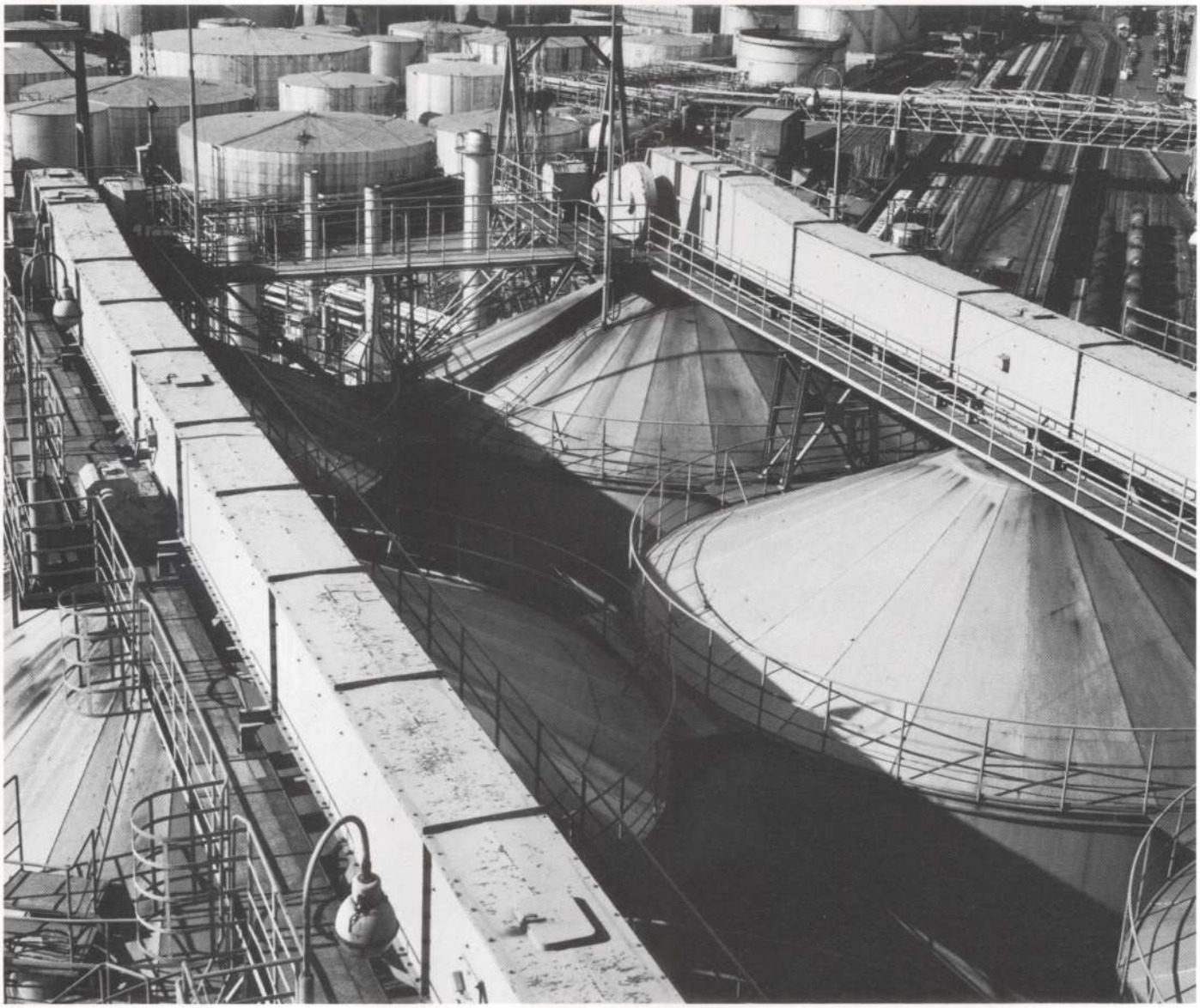
TSUBAKI		Attachment						Bolt Size	Additional Mass per Attachment kg/att. (lbs./att.)
Style	Chain No.	C	K	S	N	X	T	O	
K-1 Att.	BF188	47.6 (1.88)	—	20.6 (0.81)	54 (2.13)	65 (2.56)	6.3 (0.25)	M10 (3/8)	0.2 (0.4)
	BF131	52.4 (2.06)	—	28.6 (1.13)	72 (2.83)	68 (2.66)	9.5 (0.37)	M12 (1/2)	0.35 (0.8)
	BF102B	60.3 (2.37)	—	25.4 (1.00)	75 (2.95)	82 (3.23)	9.5 (0.37)	M10 (3/8)	0.4 (0.9)
	BF111	79.4 (3.13)	—	38.1 (1.50)	92 (3.62)	97 (3.82)	9.5 (0.37)	M12 (1/2)	0.75 (1.7)
K-2 Att.	BF188	53.2 (2.09)	31.8 (1.25)	20.6 (0.81)	54 (2.13)	65 (2.56)	6.3 (0.25)	M8 (5/16)	0.2 (0.4)
	BF131	52.4 (2.06)	38.1 (1.50)	28.6 (1.13)	72 (2.83)	68 (2.66)	9.5 (0.37)	M12 (1/2)	0.35 (0.8)
	BF102B	67.5 (2.66)	44.5 (1.75)	25.4 (1.00)	75 (2.95)	82 (3.23)	9.5 (0.37)	M10 (3/8)	0.4 (0.9)
	BF111	79.4 (3.13)	58.7 (2.31)	38.1 (1.50)	92 (3.62)	97 (3.82)	9.5 (0.37)	M12 (1/2)	0.75 (1.7)
	BF110	67.5 (2.66)	44.5 (1.75)	25.4 (1.00)	75 (2.95)	82 (3.23)	9.5 (0.37)	M10 (3/8)	0.45 (1.0)
	BF150	95.3 (3.75)	69.9 (2.75)	47.6 (1.88)	108 (4.25)	116 (4.57)	12.7 (0.50)	M12 (1/2)	1.3 (2.9)

Flow Conveyor Chains

The "Tsubaki Flow" is a highly suitable conveyor for bulk material handling due to its remarkable features such as compact and economical design. Casings are of totally enclosed, dust-tight, and water-proof construction.
Steel bushed roller chains with well designed attachments ensure smooth operation, less wear, and longer life.

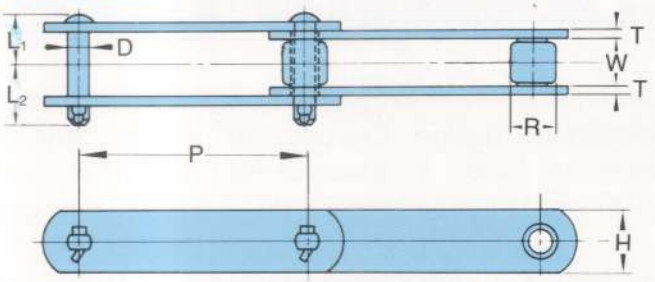
■ **FC Type Flow Conveyors** are for horizontal handling ± a 10 degree incline.

■ **LC Type Flow Conveyors** are for horizontal and upward vertical handling.



TSUBAKI CEMENT MILL CHAINS

Base Chain



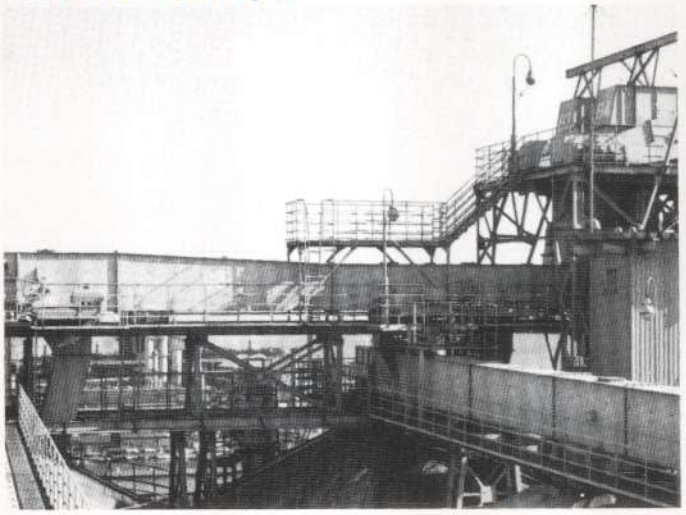
Dimensions

Dimensions in mm (inch)

TSUBAKI Chain No.	Pitch P	Average Tensile Strength kN {kgf} (lbs.) Standard	Average Tensile Strength kN {kgf} (lbs.) Reinforced	* Roller Dia. R	Width Between Roller Link Plates W	Link Plate T	Link Plate H	Pin Dia. D
RF450W-M	101.6 (4.000)	108 {11,000} (24,000)	142 {14,500} (32,000)	25.4 (1.00)	27.0 (1.06)	6.3 (0.25)	31.8 (1.25)	11.3 (0.44)
RF08125W-M	125 (4.921)	108 {11,000} (24,000)	142 {14,500} (32,000)	25.4 (1.00)	27.0 (1.06)	6.3 (0.25)	31.8 (1.25)	11.3 (0.44)
RF10125-M	125 (4.921)	113 {11,500} (25,500)	225 {23,000} (50,500)	31.8 (1.25)	30.0 (1.18)	6.3 (0.25)	38.1 (1.50)	14.5 (0.57)
RF10150-M	150 (5.906)	113 {11,500} (25,500)	225 {23,000} (50,500)	31.8 (1.25)	30.0 (1.18)	6.3 (0.25)	38.1 (1.50)	14.5 (0.57)
RF6205-M	152.4 (6.000)	186 {19,000} (42,000)	279 {28,500} (63,000)	38.1 (1.50)	37.1 (1.46)	7.9 (0.31)	44.5 (1.75)	15.9 (0.63)
RF12200-M	200 (7.874)	186 {19,000} (42,000)	279 {28,500} (63,000)	38.1 (1.50)	37.1 (1.46)	7.9 (0.31)	44.5 (1.75)	15.9 (0.63)
RF17200-M	200 (7.874)	245 {25,000} (55,000)	387 {39,500} (87,000)	44.5 (1.75)	51.4 (2.02)	9.5 (0.37)	50.8 (2.00)	19.1 (0.75)
RF17250-M	250 (9.842)	245 {25,000} (55,000)	387 {39,500} (87,000)	44.5 (1.75)	51.4 (2.02)	9.5 (0.37)	50.8 (2.00)	19.1 (0.75)
RF26200-M	200 (7.874)	314 {32,000} (70,500)	519 {53,000} (117,000)	50.8 (2.00)	57.2 (2.25)	9.5 (0.37)	63.5 (2.50)	22.2 (0.87)
RF26200-N	200 (7.874)	299 {30,500} (67,000)	544 {55,500} (122,000)	50.8 (2.00)	57.2 (2.25)	9.5 (0.37)	63.5 (2.50)	24.0 (0.94)
RF26250-N	250 (9.842)	299 {30,500} (67,000)	544 {55,500} (122,000)	50.8 (2.00)	57.2 (2.25)	9.5 (0.37)	63.5 (2.50)	24.0 (0.94)
RF26300-N	300 (11.811)	294 {30,000} (66,000)	544 {55,500} (122,000)	50.8 (2.00)	57.2 (2.25)	9.5 (0.37)	63.5 (2.50)	24.0 (0.94)
RF36300-M	300 (11.811)	475 {48,500} (107,000)	—	57.2 (2.25)	66.7 (2.63)	12.7 (0.51)	76.2 (3.00)	25.4 (1.00)
RF36300-N	300 (11.811)	—	867 {88,500} (195,000)	57.2 (2.25)	66.7 (2.63)	12.7 (0.50)	76.2 (3.00)	28.0 (1.10)

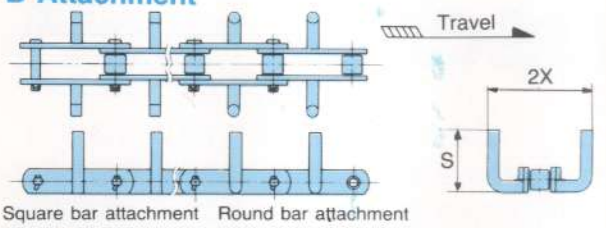
*** Note:** S.M. and N rollers are available.
The Average Tensile Strength (lbs.) is converted from {kgf} and rounded off.

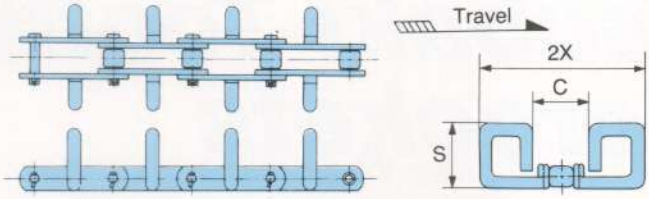
■ FC Flow Conveyor



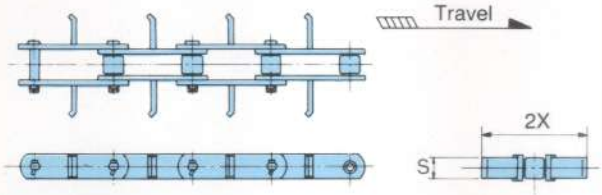
■ LC Flow Conveyor

B Attachment

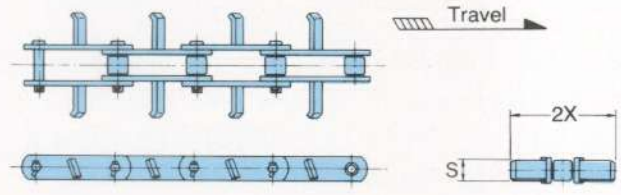




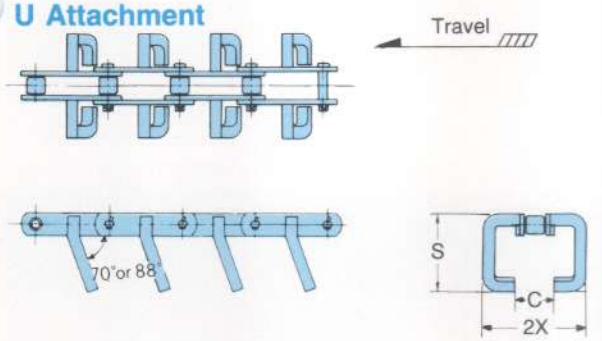
L Attachment



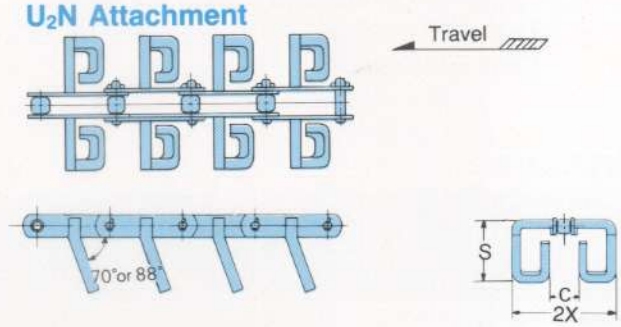
KL Attachment



U Attachment



U_2N Attachment



Attachments

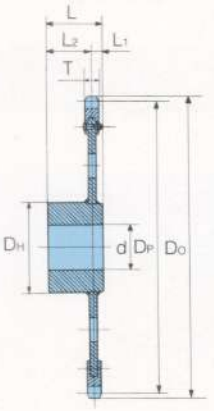
Dimensions in mm (inch)

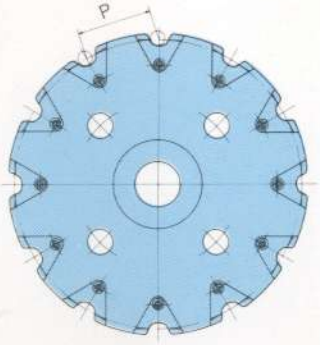
TSUBAKI Chain No.	B Attachment 2X	B Attachment S	B Attachment Approx Mass kg/m (lbs./ft.)	U_2VN Attachment 2X	U_2VN Attachment S	U_2VN Attachment C	U_2VN Attachment Approx Mass kg/m (lbs./ft.)	L and KL Attachment 2X	L and KL Attachment S	L and KL Attachment Approx Mass kg/m (lbs./ft.)	U and U_2N Attachment 2X	U and U_2N Attachment S	U and U_2N Attachment C	U and U_2N Attachment Approx. Mass kg/m (lbs./ft.) U	U and U_2N Attachment Approx. Mass kg/m (lbs./ft.) U_2N
RF450W-M	135 (5.31)	55 (2.17)	7.4 (4.97)	135 (5.31)	80 (3.15)	60 (2.36)	9.1 (6.11)	135 (5.31)	28 (1.10)	6.5 (4.37)	145 (5.71)	110 (4.33)	50 (1.97)	—	—
RF08125W-M	185 (7.28)	80 (3.15)	8.2 (5.51)	185 (7.28)	115 (4.53)	85 (3.35)	10.1 (6.78)	185 (7.28)	28 (1.10)	6.5 (4.37)	—	—	—	—	—
* **RF10125-M**	185 (7.28)	80 (3.15)	8.9 (5.98)	185 (7.28)	115 (4.53)	85 (3.35)	10.9 (7.32)	185 (7.28)	34 (1.34)	8.1 (5.44)	225 (8.86)	140 (5.51)	65.0 (2.56)	14.3 (9.60)	15.7 (10.54)
* **RF10150-M**	250 (9.84)	100 (3.94)	9.8 (6.58)	250 (9.84)	140 (5.51)	105 (4.13)	12.0 (8.06)	250 (9.84)	34 (1.34)	8.1 (5.44)					
RF6205-M	250 (9.84)	100 (3.94)	14.4 (9.67)	250 (9.84)	140 (5.51)	105 (4.13)	18.5 (12.43)	250 (9.84)	40 (1.57)	12.0 (8.06)	300 (11.81)	175 (6.89)	80 (3.15)	19.6 (13.17)	22.4 (15.05)
RF12200-M	330 (12.99)	125 (4.92)	16.3 (10.95)	330 (12.99)	185 (7.28)	130 (5.12)	20.0 (13.44)	330 (12.99)	40 (1.57)	12.0 (8.06)	—	—	—	—	—
* **RF17200-M**	330 (12.99)	125 (4.92)	18.7 (12.56)	330 (12.99)	185 (7.28)	130 (5.12)	23.0 (15.45)	330 (12.99)	46 (1.81)	17.0 (11.42)	390 (15.35)	220 (8.66)	100 (3.94)	27.9 (18.73)	30.3 (20.36)
* **RF17250-M**	430 (16.93)	160 (6.3)	19.3 (12.96)	430 (16.93)	230 (9.06)	135 (5.31)	23.7 (15.92)	430 (16.93)	46.0 (1.81)	17.0 (11.42)					
RF26200-N	—	—	—	—	—	—	—	—	—	—	390 (15.35)	220 (8.66)	100 (3.94)	30.6 (20.56)	33.3 (22.38)
* **RF26200-M**	390 (15.35)	150 (5.9)	25.0 (16.79)	390 (15.35)	233 (9.17)	100 (3.94)	33.4 (22.44)	390 (15.35)	58.0 (2.28)	28.0 (18.80)					
* **RF26250-N**	430 (16.93)	160 (6.3)	25.0 (16.79)	430 (16.93)	230 (9.06)	135 (5.31)	29.0 (19.48)	430 (16.93)	58.0 (2.28)	23.0 (15.45)	390 (15.35)	220 (8.66)	100 (3.94)	30.9 (20.75)	33.3 (22.38)
* **RF26300-N**	560 (22.05)	200 (7.87)	27.0 (18.74)	560 (22.05)	290 (11.42)	160 (6.3)	30.6 (20.56)	560 (22.05)	58.0 (2.28)	23.0 (15.45)					
* **RF36300-M**	560 (22.05)	200 (7.87)	37.0 (1.46)	560 (22.05)	290 (11.42)	160 (6.3)	40.0 (26.87)	560 (22.05)	70.0 (2.76)	34.0 (22.84)	480 (18.9)	260 (10.24)	120 (4.72)	42.5 (28.56)	44.8 (30.08)
* **RF36300-N**											580 (22.83)	305 (12.01)	140 (5.51)	47.0 (31.58)	48.1 (32.29)

*** Note:** * Shaded dimensions apply to all chains in the same block.

Tsubaki Tooth Insert Sprockets

Due to the heavy wear on sprockets for cement handling bucket elevators, replacement must be frequently carried out. Sprocket replacement costs time and money. Freedom from costly maintenance and sprocket replacement is now available with TSUBAKI TOOTH INSERT SPROCKETS. The teeth of these sprockets can be easily and quickly replaced even when the conveyor chain is engaged with the sprocket.





Dimensions

Dimensions in mm (inch)

TSUBAKI Sprocket No.	Pitch P	* No. of Teeth	Outside Dia. D_O	Pitch Dia. D_P	Bore Dia. d min.	Bore Dia. d max.	Hub Dia. D_H	Hub Length L	Hub Length L_1	Hub Length L_2	Thickness of Tooth T	Mass kg (lbs.)
B08125S12T	125 (4.92)	12	502 (19.76)	483 (19.02)	45 (1.77)	110 (4.33)	160 (6.3)	105 (4.13)	25 (0.98)	80 (3.15)	19 (0.75)	37 (81)
B10150S12T	150 (5.91)	12	606 (23.86)	579.6 (22.82)	50 (1.97)	130 (5.12)	190 (7.48)	125 (4.92)	25 (0.98)	100 (3.94)	22 (0.87)	51 (112)
B12006S12T	152.4 (6.00)	12	621 (24.45)	588.8 (23.18)	85 (3.35)	115 (4.53)	190 (7.48)	125 (4.92)	25 (0.98)	100 (3.94)	28 (1.10)	58 (128)
B12200S12T	200 (7.87)	12	804 (31.65)	772.7 (30.42)	115 (4.53)	150 (5.91)	250 (9.84)	165 (6.5)	30 (1.18)	135 (5.31)	28 (1.10)	105 (231)
B17200S12T	200 (7.87)	12	806 (31.73)	772.7 (30.42)	115 (4.53)	150 (5.91)	250 (9.24)	165 (6.5)	30 (1.18)	135 (5.31)	40 (1.57)	134 (295)
B17250S12T	250 (9.84)	12	997 (39.25)	965.9 (38.03)	155 (6.10)	170 (6.7)	270 (10.63)	185 (7.28)	35 (1.38)	150 (5.91)	40 (1.57)	185 (407)
B26200N12T	200 (7.87)	12	812 (31.97)	772.7 (30.42)	115 (4.53)	150 (5.91)	250 (9.84)	165 (6.5)	30 (1.18)	135 (5.31)	45 (1.57)	150 (330)
B26250N12T	250 (9.84)	12	1004 (39.53)	965.9 (38.03)	155 (6.10)	170 (6.7)	270 (10.63)	185 (7.28)	35 (1.38)	150 (5.91)	45 (1.57)	208 (458)
B26300N12T	300 (11.81)	12	1196 (47.09)	1159.1 (45.63)	195 (7.68)	210 (8.27)	330 (12.99)	230 (9.06)	45 (1.77)	185 (7.28)	45 (1.57)	305 (671)
B36250N12T	250 (9.84)	12	1010 (39.76)	965.9 (38.03)	155 (6.10)	170 (6.7)	270 (10.63)	185 (7.28)	35 (1.38)	150 (5.91)	55 (2.17)	239 (526)
B36300N12T	300 (11.81)	12	1201 (47.28)	1159.1 (45.63)	195 (7.68)	210 (8.27)	330 (12.99)	230 (9.06)	45 (1.77)	185 (7.28)	55 (2.17)	344 (757)
B36350N12T	350 (13.78)	12	1393 (54.84)	1352.3 (53.24)	215 (8.46)	250 (9.84)	390 (15.35)	275 (10.83)	45 (1.77)	230 (9.06)	55 (2.17)	493 (1085)
B60300N12T	300 (11.81)	12	1212 (47.72)	1159.1 (45.63)	195 (7.68)	210 (8.27)	330 (12.99)	230 (9.06)	45 (1.77)	185 (7.28)	65 (2.56)	406 (893)
B60350N12T	350 (13.78)	12	1404 (55.28)	1352.3 (53.24)	215 (8.46)	250 (9.84)	390 (15.35)	275 (10.83)	45 (1.77)	230 (9.06)	65 (2.56)	569 (1252)
B60400N12T	400 (15.75)	12	1596 (62.83)	1545.5 (60.85)	255 (10.04)	290 (11.42)	470 (18.50)	320 (12.6)	55 (2.17)	265 (10.43)	65 (2.56)	776 (1707)
B90350N12T	350 (13.78)	12	1415 (55.71)	1352.3 (53.24)	215 (8.46)	250 (9.84)	390 (15.35)	275 (10.83)	45 (1.77)	230 (9.06)	75 (2.95)	691 (1520)
B90400N12T	400 (15.75)	12	1608 (63.31)	1545.5 (60.85)	255 (10.04)	290 (11.42)	470 (18.50)	320 (12.6)	55 (2.17)	265 (10.43)	75 (2.95)	925 (2035)
B120400N12T	400 (15.75)	12	1618 (63.70)	1545.5 (60.85)	255 (10.04)	290 (11.42)	470 (18.50)	320 (12.6)	55 (2.17)	265 (10.43)	85 (3.35)	1047 (2303)

*** Note:** Sprockets with a different number of teeth are available upon request.
TSUBAKI TOOTH INSERT SPROCKETS are applicable in Flow Conveyor systems.

How to Inquire

1. For New Installations

The following data is necessary in order for us to offer you the most suitable chain.

1 Basic Specifications of B.E.

Center distance:		m (ft.)
Capacity:	Max.	ton/hr. (lbs./hr.)
	Av.	ton/hr. (lbs./hr.)
Chain speed:		m/min. (ft./min.)
Operation:		hr./day
		day/year

2 Material to be Conveyed

Material:		
Apparent specific gravity:		ton/m³ (lbs./ft.³)
Temperature:	°C	(°F)
Humidity:	%	
Lump size:	max.	
	mean	
	min.	

3 Conveying Equipment Located Before the B.E.

Name:		
Capacity:	Max.	ton/hr. (lbs./hr.)
	Av.	ton/hr. (lbs./hr.)

4 Specification of Chain

Pitch:	
Att. & spacing:	
A.T.S.:	
Total links:	LINKS
Strands:	

5 Specifications of Bucket

Model No.:		
Size:	×	×
Mass:		kg/pc. (lbs./pc.)
Total number:		pcs.
Loading percent:		%

6 Specifications of Wheel

* Headwheel: traction wheel or sprocket

Dia./P.C.D.	mm (inch)
No. of teeth:	T

* Tail wheel: Sprocket or traction wheel

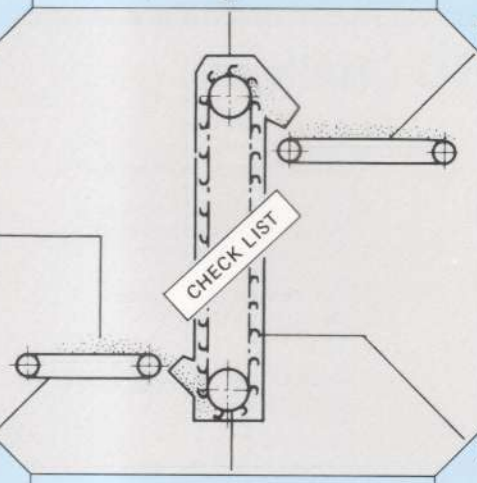
Dia./P.C.D.	mm (inch)
No. of teeth:	T

7 Conveying Equipment Located After the B.E.

Name:		
Capacity:	Max.	ton/hr. (lbs./hr.)
	Av.	ton/hr. (lbs./hr.)

8 Main Drive System

Motor:	kw	pole	V	Hz	
Reducer:		ratio	/		
Coupling:					
Head shaft r.p.m.:					



2. For Replacement

1. Brand of existing chain : Manufactured by
2. Chain No. :
3. Attachment : (Attachment spacing: pitches)
4. Breaking load : kN { kgf} (lbs.)
5. Chain pitch : mm, (inch.)
6. Chain life : years
7. Weakest component parts : ( ) Pin, ( ) Bushing, ( ) Others _____
8. Cause of replacement : ( ) Wear, ( ) Corrosion, ( ) Others _____

TSUBAKIMOTO CHAIN CO.

Headquarters
Twin21 MID Tower 36F
1-61, Shiromi 2-chome
Chuo-ku, Osaka 540-6136, Japan
Phone : 06-4790-0121
Facsimile : 06-4790-0142
internet:
http://tsubakimoto.com

Chain Division
Global Business Department
1-3, Kannabidai 1-chome
Kyotanabe Kyoto 610-0380, Japan
Phone : 0774-64-5022/3/4/5
Facsimile : 0774-64-5212

For further information please
contact the Chain Division.

Kyotanabe Plant

Affiliated Companies:

U.S. TSUBAKI, INC.
301 E. Marquardt Drive
Wheeling, IL 60090
U.S.A.
Phone : 847-459-9500
Facsimile : 847-459-9515

TSUBAKI of CANADA LIMITED
1630 Drew Road
Mississauga, Ontario, L5S 1J6
Canada
Phone : 905-676-0400
Facsimile : 905-676-0904

TSUBAKI AUSTRALIA PTY. LTD.
Unit E. 95-101 Silverwater Road
Silverwater, N.S.W. 2141
Australia
Phone : 02-9648-5269
Facsimile : 02-9648-3115

TSUBAKIMOTO SINGAPORE PTE. LTD.
25 Gul Lane
Jurong
Singapore 629419
Phone : 68610422/3/4
Facsimile : 68617035

TAIWAN TSUBAKIMOTO CO.
No. 7 Feng Sun Keng
Kuei Shan-Hsiang, Taoyuan-Hsien
Taiwan R.O.C.
Phone : 033-293827/8/9
Facsimile : 033-293065

TSUBAKIMOTO EUROPE B.V.
Belder 1, 4704 RK Roosendaal
The Netherlands
Phone : 0165-594800
Facsimile : 0165-549450

TSUBAKIMOTO U.K. LTD.
Osier Drive, Sherwood Park
Annesley,
Nottingham NG15 0DX U. K.
Phone : 01623-688-700
Facsimile : 01623-688-789

KONING AANDRIJFTECHNIEK
Waalhaven Z/Z 42
3088 HJ, Rotterdam
The Netherlands
Phone : (10)494-1818
Facsimile : (10)429-4906

TSUBAKIMOTO (THAILAND) CO.,LTD.
Room No. C.T.W.Y OFFICE CENTER, 10th Floor
Serm-Mit Tower,
159 Soi Asoke, Sukhumvit Road, North-Klongtoey,
Wattana Bangkok 10110
Thailand
Phone : 66-02-261-9991
Facsimile : 66-02-261-9993

Distributed by:

Catalog No.7301c © 2002.11. TSUBAKIMOTO CHAIN CO. Printed in Japan Ⓦ 1000