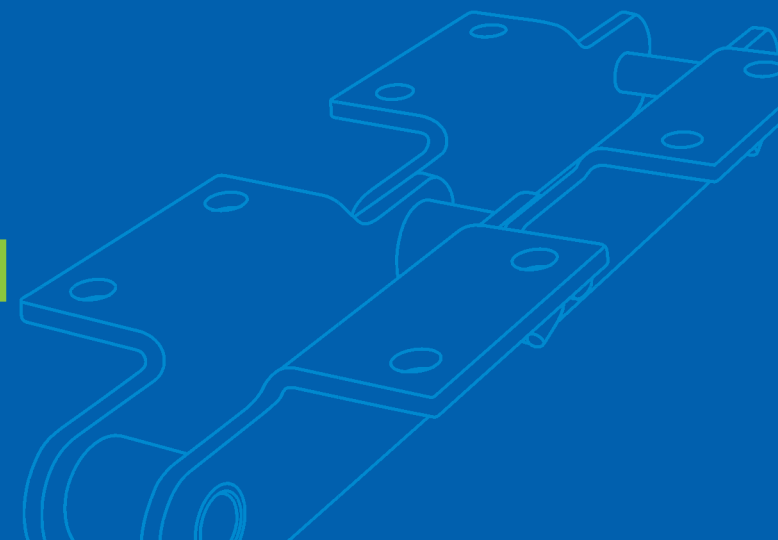


BANDO CHAIN INDUSTRIAL CO., LTD.

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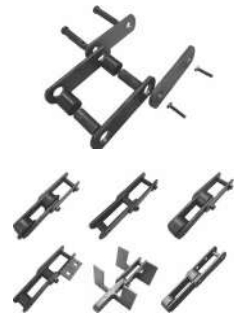
**CONVEYOR CHAIN
SPECIALIST**



1. BANDO CHAIN IS



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3. LARGE SIZE CONVEYOR CHAIN



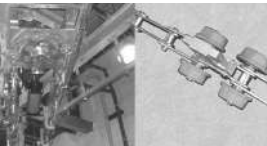
Flow Conveyor chain	- Excellent to retain materials and prevent pollution by transports materials within an enclosed or semi closed case.	47
BNF type Block chain App.) NF type	- Excellent structural durability, anti-abrasion, and heat-resistance. - Application with special attachments possible.	57
Bucket Conveyor chain App.) NB type, DK type	- Designed specifically to be used with high-speed bucket elevator chains. therefore anti-abrasion, anti-fatigue, and impact-resistance are required.	58
Slat Conveyor chain	- Attaches a slat to convey desired materials.	69
Apron Conveyor chain	- Designed to convey shavings and other small, granulated materials at an incline.	71
BRO type heavy duty roller chain App.) RO type	- Usually used in driving of heavy equipment and drawing machines.	73

4. SPECIAL CONVEYOR CHAIN



Bearing roller chain	- Designed specifically to transport heavy-duty items or when increased abrasion resistance is required.	78
Low friction & Light duty Conveyor chain App.) SCT type	- Designed to transport the heavy materials of ironworks, such as cold/hot coils, slabs, and containers.	81
Side roller chain	- Designed the side roller to drive and S roller for operation. - Mainly use when it's designed with special type attachment and/ or difficult to withstand for load with just S roller.	83

	Top roller chain	- Designed to directly transport items on the chain itself in order for chain to continuously drive whilst allowing items to be inspected at a standstill.	84
	BDD type direct transport Conveyor chain App.) RFD type	- Allows for the direct transport of items on the chain. - Typical usage is with steelworks to transfer thick plates and section steel and automobile body parts.	86
	Hollow pin type Conveyor chain	- Easily detachable special attachments due to NET and HINGE and Bar is attached to the pin hole.	87
	Continuous ship unloader Conveyor chain	- Harbor loading and unloading Conveyor Chain. - Used to continuously unload large amounts of coal, iron ore, limestone, etc. - Corrosion resistance and wear resistance are suitable to protect the chain from seawater.	89
	Slat band & Crescent chain	- Used in a bottle or canned food industry, medicine industry's etc. for the filling, cleaning, and disinfection processes.	90
	Curve chain & Multi joint chain	- Used when vertical driving or horizontal driving on the conveyor structure is necessary.	93
	Steel drag Conveyor chain	- Used mainly for powder and wood chips.	94
	Trolley Conveyor chain	- Efficient use of the available space. - Easy for inspection, maintenance, refueling. - Increase productivity by sequencing of production.	97
5. CONVEYOR CHAIN FOR SPECIAL USE			
	Automobile (Assemble)	- Typically used for automobile assembly lines, shower lines, and test lines etc. - Bearings and rollers made from special materials are used for noise reduction and surge-protection.	103

	Automobile (Painting)	- Typically used with conveyors that painting process for automobile body parts. - Excellent corrosion- resistance and wear - resistance. - Made with precision.	105
	Butchery Facilities	- Mainly used to automate the butchery process. - Features free lateral and vertical movement.	107
	Cement	- Mainly used in the cement industry's automated conveyor process. - Customizing available to increase wear resistance and corrosion resistance.	109
	Incineration & Recycling	- Used for the automated processing of recyclable materials and household waste - Highly-resistant to abrasion	111
	Powder Handling	- Generally used to transport starch, feed, corn, or other granulated food-stuffs. - The chain carries itself at the bottom part of the casing which prevents loss of products.	113
	Parking tower & Escalator	- Used exclusively in parking structures and escalators.	115
	Sterilizer & Bottle washer	- Used for sterilizer for bottle such as beer and beverage. - Made of stainless steel.	116

6. CONVEYOR CHAIN & SPROCKET FOR WATER TREATMENT

	BSC type chain & Sprocket App.) HSC,HSS type	- Sludge collector. - Grit remover. - Coarse water screen, Fine water screen. - Water bar screen for intake (Rotating-rake, Fixed rake)	119
	BACS type chain & Sprocket App.) ACS type		123

	BJAC type chain & Sprocket App.) JAC type		127
	BDF type drive chain App.)BF type	- Drive chain for water treatment. - Excellent durability and corrosion resistance.	131
	BWC type chain App.)WAC,RBS,TWS type	- Used in the automated water cooling process in power plants. - Excellent corrosion resistance and wear resistance to protect against repeated	133
	BD400-C type chain App.)H Class pintle chain	- Easy to assemble and disassemble chain. - Integrally linked castings.	134
	BDH-C type chain App.)H Class pintle chain	- Designed to reduce the wear to the chain surface. - Designed to reduce chain slack (sinking) by attaching a reinforcement to the link.	136
	BD700-C type chain App.)700 Class pintle chain	- Used in seawater or other contaminated water - Used for collector batcher plant in the sedimentation pond of a sewage treatment to transfer sand and gravels.	138
	BD700-CB type chain App.)700 Class combination pintle chain	- Used in power water pumping facilities, BAR screen facilities, sewage treatment plants, and grid and collector pump relays.	140

7. SMALL SIZE CONVEYOR CHAIN

Standard small size conveyor chain	- The roller pitch is twice as wide to facilitate easy attachment and removal.	142
Side roller type chain	- Improved chain stability - BACK FEEDING possible. - Available lightweight to use Poly Roller.	144

Triple chain	145
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Top roller chain	146
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Sprocket for Standard small size conveyor chain	147
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8. POWER TRANSMISSION ROLLER CHAIN

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BANDO CHAIN IS

- Introduction
- Precautions/Warnings
- Structure of Conveyor chain
- Category of Conveyor chain
 - Roller types & Usable rails
 - Attachment types
- Selection of Conveyor chain
- Inspection & Maintenance

INTRODUCTION

BANDO CHAIN is a trusted, responsible, reliable company with a proud record of return clientele.

Here at BANDO CHAIN, we specialize in conveyor chains for various types of automated conveyor systems and have been producing top-quality chains since 1990.

Since our establishment, we have continuously invested in our own engineering and have accumulated the know-how and engineering excellence necessary to produce some of the world's best conveyor chains.

We vow to always put the needs of our customers first and offer the best customer service in the industry. Our track record of return customers speaks for itself and lends credence to our promise that customer satisfaction is our top priority.

PLEASE READ THOROUGHLY PRIOR TO SETUP AND/OR OPERATION.

- Incorrect selection of conveyor chains can interfere with the flow of the process which can cause damage and system failures.
- Proper upkeep of chains such as regular maintenance and application of lubrication can greatly extend the lifespan of the chains.

1. Correct selection of chain

- ❶ Please select a chain above the materials margin of safety (by weight) for to ensure adequate strength the chain. (Refer to 16p.-- for standard safety.)
- ❷ Please consider the environment when selecting chain material and form
- ❸ If operating in severely corrosive environments (alkali, acid, etc.), please consult with our chain experts.

2. Proper installation and operation

- ❶ Incorrect installation can directly contribute to the damage of the chains, so please refer to the catalogue. (Refer to 20p.-- for conveyor chain check list)
- ❷ Dismantlement and relocation can be dangerous.
- ❸ Please do not grind or apply grinding heat to the outer pin surface or plate.
- ❹ Assemble and disassemble JIG by using a hydraulic JACK. (10% breaking strength)

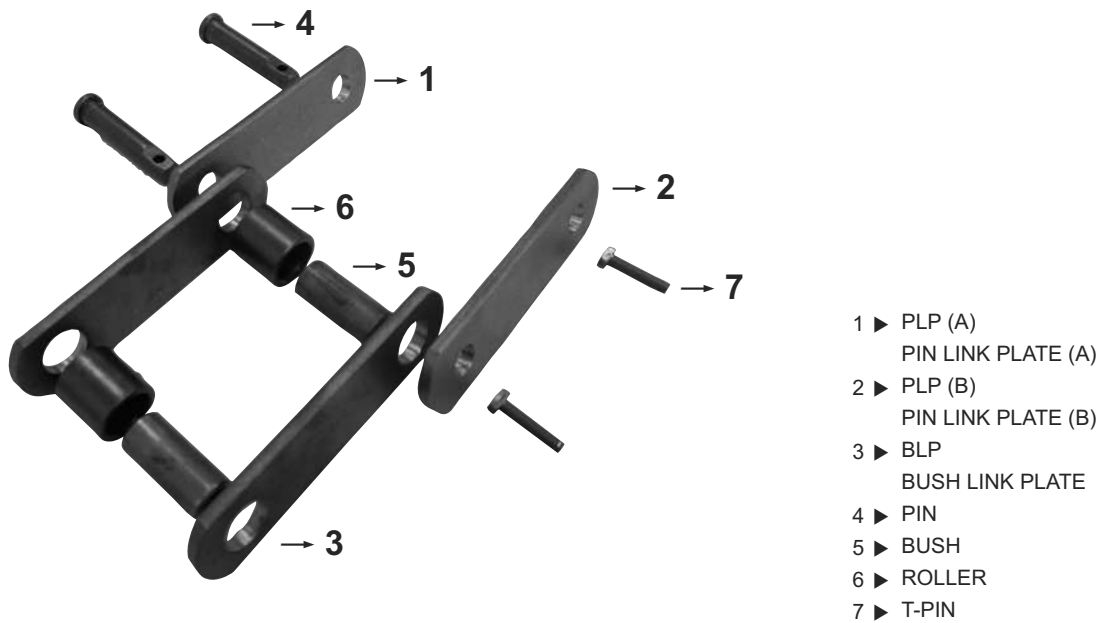
3. Safety Precautions

- ❶ Please always wear suitable clothing during operation.
- ❷ Make sure there are other people near the work-site during operation .
- ❸ Make sure the main power switch and all auxiliary switches are off before commencing operation.
- ❹ Beware of clothing snags when working on chains or sprockets.
- ❺ Never stand directly beneath a lifting device.

STRUCTURE OF CONVEYOR CHAIN

STRUCTURE OF CONVEYOR CHAIN

Standard conveyor chains consist of a link plate, pins, bushes and rollers, as shown in the picture below.



DESCRIPTION

PLATE(1),(2),(3) Plates are directly under a load of tension from the transferred materials. Sometimes the traveling direction of the drive chain causes friction to the outer and inner links, which can result in rail fatigue. Selection of superior shock and abrasion-resistant materials are essential.

PIN(4) In order to sustain the shear bending force to the chain, excellent material selection of the sprockets adds combined value. Shock and abrasion resistance are required because of operational friction.

BUSH(5) It needs big fatigue resistance because of the continuous impact load from each part and sprocket also needs wear resistance for moving of pins.

ROLLER(6) Rollers need more strong impact resistance, compression resistance, abrasion resistance because rollers meet directly with the teeth of the sprockets and bush.

T-PIN(7) T- Pin used after assembly to prevent separation during operation.



ROLLER TYPE OF CONVEYOR CHAIN

TYPE	SKETCH	FEATURE
S,M,N TYPE		The outside diameter of roller is smaller than the height of the link plate.This type is mainly used in bucket elevator, flow conveyor.
R TYPE		(Basic type of conveyor chain) The outside diameter of roller is larger than the height of the link plate. This type is mainly used in horizontal, inclined conveyors.
F TYPE		F roller is produced by attaching the flange to the R roller. This type of chain operates along with line and mainly used for large size of horizontal, incline conveyors to transfer heavy and large material.
BEARING TYPE		BEARING TYPE is produced by attaching the bearing to the R or F roller. This type of chains has low drive loss by low rotation friction and large allowable load compared with normal roller.
BUSHED TYPE		BUSHED TYPE chains are prduced without roller. This type of chains is mainly used trolley conveyors, pusher chain conveyors and the situation that the chain only has to transmit the pull also can be used for carrying heavy loads by attaching separate roller.

RAIL FOR ROLLER TYPE

USABLE RAILS

Please select a conveyor chain that meets the conditions of the application. For example, by the rail of the conveyor chain roller.

	S,M ROLLER TYPE CENTER LINK TYPE	R ROLLER TYPE	F ROLLER TYPE	SIDE ROLLER TYPE
RAIL	S,M ROLLER TYPE 			
	NON ROLLERED TYPE (CENTER LINK) 			
	BUSHED TYPE 			

TYPE OF ATTACHMENT

ATTACHMENT TYPE OF CONVEYOR CHAIN

Conveyor chain attachments are available for selection according to the conditions in which they will be used. Please contact to make alterations to the basic form so that we can design an attachment to best suit your automation environment.

A type. attachment



K type. attachment



G type. attachment



Flow type. attachment



SELECTION OF CONVEYOR CHAIN

Selection of conveyor chains should include careful consideration of the operational environment, chain form, attachments needed, and desired material. Please refer to the guide below to assist in the selection process.

SELECTION OF CHAIN STANDARD

Please ensure the required strength (as shown here) is multiplied by a factor of safety of the chain to the tension of the chain is calculated by first breaking strength of the selected chain tension calculation checks for showing satisfactory, if not satisfied, use the Up One review posted strong type chains or chains Please.

Safety Factor =
$$\frac{\text{Ultimate strength (kgf)}}{\text{Chain tension (kgf)} \times \text{Utilization factor}}$$

SAFETY FACTOR		USE COEFFICIENT		LIMITED TEMPERATURE AND SAFETY FACTOR												
CHAIN SPEED	SAFETY FACTOR	CONVEYOR	USE COEFFICIENT	TEMPERATURE SERISE	100	200	300	400	450	500	550	600	650	700		
30m/min below	+7	Slat conveyor	1.2~1.6	CARBON STEEL	7	8										
30-40 m/min	+8	Flow conveyor	1.3~1.7	ALLOY STEEL	7	7	8	10	12	-	-	-	-	-		
40-50 m/min	+9			STAINLESS(400SERISE)	10	10	10	10	12	12	18	25	-	-		
50-60 m/min	+10	Bucket elevator	1.5~2.0	STAINLESS(300SERISE)	12	12	12	12	14	14	15	18	22	26		

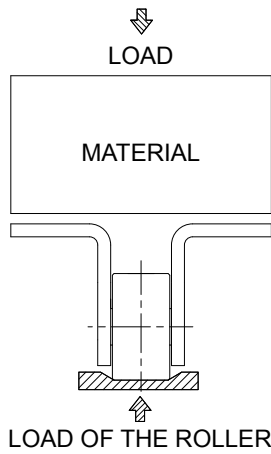
The safety factor is based on use in good conditions, but consideration should also be given to include impact load, the atmosphere, the modification of the working load, the necessary lubrication conditions and working hours (1 day). The utilization factor is calculated by multiplying the tension as to the content. In the case when the temperature of the chain exceeds 200 °C, or when transporting abrasive or corrosive materials, please contact us for specific consultation.

AVERAGE ULTIMATE STRENGTH

(Unit : kgf)

BANDO Chain No.	CARBON STEEL	CARBON STEEL(H.L)	ALLOY STEEL	STAINLESS 400SERISE	STAINLESS 400SERISE (H.T)	STAINLESS 300SERISE
BD03000	3,000	4,600	7,100	3,500	5,500	3,400
BD430	5,500	8,000	10,000	5,300	8,500	4,900
BD05000	7,000	10,000	14,500	7,200	11,000	7,000
BD204	8,000	11,000	14,500	8,000	12,500	7,000
BD450	8,000	11,000	14,500	8,000	12,500	7,000
BD08000	8,000	11,000	14,500	8,000	12,500	7,000
BD650	8,000	11,000	14,500	14,000	14,500	7,000
BD10000	11,500	17,000	23,000	11,500	19,000	11,000
BD214	13,000	20,000	24,500	12,000	19,000	12,500
BD205	13,000	20,000	24,500	12,000	19,000	12,500
BD6205	19,000	23,500	28,500	17,000	25,000	13,500
BD12000	19,000	23,500	28,500	17,000	25,000	13,500
BD212	25,000	32,000	39,500	22,500	36,500	19,000
BD17000	25,000	32,000	39,500	22,500	36,500	19,000
BD26000	32,000	46,000	53,000	30,000	47,000	25,500
BD36000	48,500	60,000	69,500	-	-	-
BD52000	54,000	83,000	105,000	-	-	-
BD60000	62,000	90,000	106,000	-	-	-
BD90000	95,000	140,000	166,000	-	-	-
BD120000	113,000	169,000	225,000	-	-	-

SELECTION OF ROLLER



ROLLER TYPE CHART		
ROLLER TYPE	APPLICATION	FEATURE
S,M,N type	Bucket elevator, Flow conveyor	Less abrasive materials : S Highly abrasive materials : N, M
R,F type	Slat conveyor, Apron conveyor	The conveyor closed to the center distance : R The conveyor far to the center distance : F

Loading system is in accordance with the load acting on the roller to apply different materials for transport. Please refer to the table below. The tensile strength of the guide rails will need more than 41kg / mm.

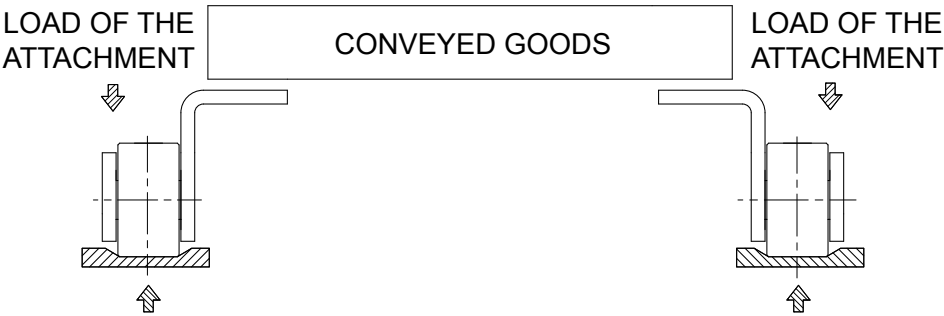
ALLOWABLE LOAD OF THE ROLLER						(Unit: kgf /per 1 roller)	
BANDO Chain No.	R,F TYPE		S,M,N TYPE	PLASTIC TYPE	BEARING TYPE		NEEDLE BUSH
	CARBON STEEL	ALLOY STEEL			R TYPE	F TYPE	
BD03000	55	90	55	90	200	200	
BD430	95	160	95				
BD05000	105	175	105	145	310	200	150
BD204			130				
BD450	130	215	130	210	420	270	
BD08000	130	215	130		420	270	
BD650	145	240	145				
BD10000	180	300	180	250	560	350	180
BD214	215	365	215				
BD205			255				
BD6205	255	425	255				
BD12000	255	425	255		850	560	
BD212	295	495	295				
BD17000	410	680	410		1,440	1,000	
BD26000	540	900	540		2,000	1,900	
BD36000	760	1,260	1,000		2,800	1,900	
BD52000	1,000	1,690	1,000				
BD60000	1,100	1,850	1,100				
BD90000	1,550	2,600	1,550				
BD120000	2,000	3,400	2,000				

COEFFICIENT OF FRICTION OF THE CHAIN ROLLERS AND THE GUIDE RAIL f1		
ROLLER OUT DIA	LUBRICATION	FREE LUBRICATION
D < 50	0.15	0.15
50 < = D < 65	0.14	0.19
65 < = D < 75	0.13	0.18
75 < = D < 100	0.12	0.17
100 < = D	0.11	0.16
Bearing roller	0.03 ~ 0.05	
Bushed chain	0.3	0.43

WHEN THE PLATE OF THE CHAIN CONTACTS THE GUIDE RAIL, THE COEFFICIENT OF FRICTION f1		
TEMPERATURE	LUBRICATION	FREE LUBRICATION
Room Temp. ~ 400℃	0.15	0.2
400 ~ 600℃	0.14	0.19
600 ~ 800℃	0.13	0.18
800 ~ 1000℃	0.12	0.17

SELECTION OF ATTACHMENT

Please select the most economic attachment to suit the desired transport materials



A Type attachments allow for one vertical load (according to the weight and form of transported materials) are shown in Table 8. When the load on the support of the roller chain by inserting the preparation, and the allowable load of the roller, by employing the small value state.

AVERAGE ULTIMATE STRENGTH (Unit: kgf /per 1 ATT)					
BANDO Chain No.	CARBON STEEL	ALLOY STEEL	BANDO Chain No.	CARBON STEEL	ALLOY STEEL
BD03000	80~95	120~145	BD6205	375	440
BD430	160	240	BD12000	450~540	540~545
BD05000	105~175	160~260	BD212	505	600
BD204	110	165	BD17000	495~685	585~700
BD450	220	330	BD26000	450~680	670~930
BD08000	285	425	BD36000	700~880	700~880
BD650	240	240	BD52000	990~1230	990~1230
BD10000	210~265	315~400	BD60000	560~850	560~850
BD214	330	490	BD90000	660~1250	660~1250
BD205	245	370	BD120000	645~1290	645~1290

※ loads of attachment of bigger than 300 pitches is same for carbon steel and Alloy steel by using angles.

DECIDING ON CHAIN PITCH

The dimension of the chain can be determined by the kind of conveyor, transport materials, size and shape of attachments, transport speed and capacity. However, a chain pitch is associated with sprocket. Chain pitch must be within the acceptable range to preserve the life of each part by the impact when a short pitch is selected. (Within the allowable range)

Sprocket rotation (RPM) = $\frac{1000 \times \text{Transport rate(m/min)}}{\text{Dimension} \times \text{Pitch (mm)}}$

SELECTION OF MATERIAL AND SPECIFICATION

Chains are made with certain characteristics with specific purposes in mind, so determine material and heat treatment temperature by referring to the following table with extra attention.

SPECIFICATION(MATERIAL & HEAT TREATMENT)			
SPEC		APPLICATION · CHARECTERASTIC	ALLOWABLE TEMP(°C)
NORMAL ENVIRON- MENT	CARBON STEEL	The most widely-used general-purpose chain (Standard Chain)	-20 ~ 200
	CARBON STEEL (H.T)	Used to enhance the wear resistance and load capacity between the bush-roller with quenched F roller.	-20 ~ 200
	ALLOY STEEL	high-load capacity roller is usually twice the suggested break strength than carbon spec. (for highly abrasive materials)	-60 ~ 500
	PIN.BUSH ANTI-ABRASION SPEC	AA enhanced wear resistance of the pin is greater than standard specifications.	-20 ~ 200
	BEARING ROLLER SPEC	Small sizes are available; low coefficient of friction and high roller allowable	-20 ~ 80
CORRO- SIVE ENVI- RONMENT	Stainless 400 SEIRESE	400 Used for required anti-abrasion, high tempera- ture, rusted environment. Avoid alkaline environment	-70 ~ 600
		400 (H.T) Please use 1.6 times the breaking strength than outlined by S4 when transferring heavy materials or in alkaline environments. Avoid alkaline environment	
	Stainless 300 SEIRESE	We have special treatments to guard against extreme heat and rust build-up.(SUS 304)	-20 ~ 700
LIGHT CORISIVE ENVIRON- MENT	Bush-Roller corrosion resistant	Treated to have corrosion resistance between bush to roller suitable to use in moisture environment.	-20 ~ 200
	Pin-Bush anti abra- sion /anti-corrosion	The strength of improved specification than Carbon steel (H, T) specification.	-20 ~ 200
	Pin-bush-roller corrosion	Treated to have corrosion resistance between bush to roller and bush to roller, suitable to operate in the water.	-20 ~ 200
OTHERS		According to transported material, Freely combine vari- ous treatments and selecting material.	-

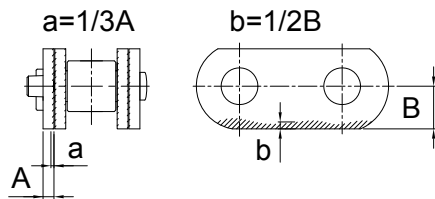
INSPECTION & MAINTNANCE
USING LIMIT FOR CHAIN

The degree of wear occurs unevenly in different parts of the chain over long periods of time, so the decision to replace chains should be made based on the most worn section of any given chain. The parts that are most typically subject to wear effect the overall life-expectancy of chains. Most common signs of wear are link plate wear, pins and bush diameter reduction, roller wear, pitch extension, and sprocket wear.

1. LINK PLATE WEAR

It occurs to contact between the casing due to transport material, link plate and contacting with inner link plate and the side parts of the roller.

LINK PLATE WEAR AND
REPLACEMENT PERIOD



2. INNER-WEAR OF PIN AND BUSH

A winding movement is generated between the chain and sprocket wheel at which time the pin and bush's inner surface undergo wear. Over a long period of use, the pitch is elongated, resulting in the overall elongation of the chain.

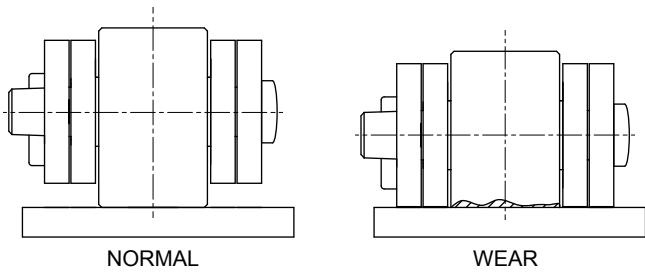
INNER-WEAR OF PIN AND BUSH &REPLACEMENT TIMETABLE

PART	CARBURIZATION	QUENCHING
	$\frac{d}{D} = 0.975$	$\frac{d}{D} = 0.85$
	In case of the wear of inner or outer diameter are more than 0.025D.	Minimum thickness (t) $t = (D-d) \times \frac{1}{2} \times 0.4$

3. WEAR OF THE ROLLER

Although wear to the outer diameter is significant, when compared to other parts it does not affect the performance. When using R or F roller, depending on the wear of the contact side and/or bush contact point, rollers can be used until the bottom of the link plate comes into contact with the rail. If you start to reach the limit of the link plate at the rail, it not only promotes pin and bush wear but also increases frictional resistance and may cause increased tension, which can lead to a lack of output to the driving chain. The usage limit of S roller depends on the accurate assembly of the sprocket which results in smooth mesh points. S roller can be used until the point where holes begin to appear.

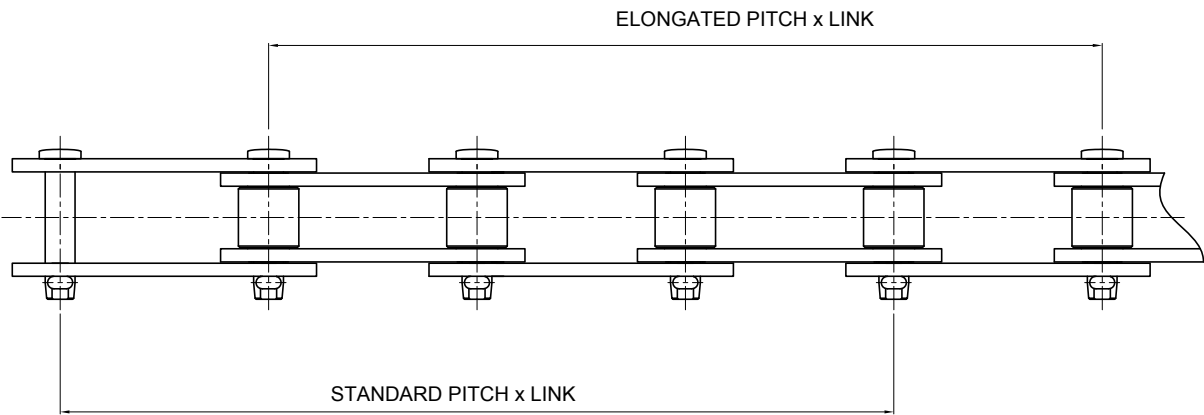
WEAR OF THE ROLLER



4. PITCH ELONGATION

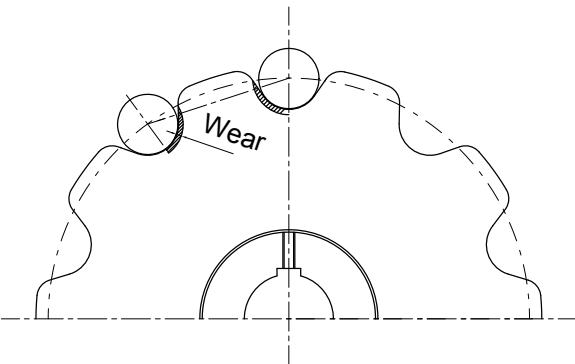
The chain-sprocket mesh point causes wear to the pins and bushes which, over time, results in the overall elongation of the pitch. Chain elongation limits about 2-3% of the original chain dimensions. As illustrated in the diagram below, the chain elongation amount is calculated by measuring the state of applied tension of more than 4 links of chain.

CHAIN ELONGATION MEASUREMENT



5. WEAR OF SPROCKET

When sprocket teeth are worn (as shown in the diagram to the left), the meshing between the chain and sprocket is not smooth, thus causing damaging vibration. In the case of this type of grinding wear, overlay welding (for reinforcement) or reverse assembly of sprockets is possible. Wear of the sprocket wheel's tooth root is proportional to the chain speed. Operating limit vary slightly depending on the type of conveyor and chain size. Modification or replacement usually takes place when the wheel is worn 3-6 mm.



Note : Overlay welding rods should be selected from among the DF2B-B standard metal with a hardness of HV350 ~ HV600 should be selected based on the amount of wear observed. In addition, use compound D4316 for basic welding when there is extensive damage.

LUBRICATION

In order to extend the lifespan of chains, it is important above all to diligently apply lubricated on a regular basis. However, when the chain is buried beneath the transport substances, lubrication must be avoided due to direct contact. An example of such a circumstance would be powdered or granulated materials carried via apron conveyors. Lubrication, therefore, must be done once presence or absence of particular substances has already been taken into account.	• Lubrication Sites	between the pin and bush between the bush and roller between the links
	• Lubrication Type	SAE 30 (-10°C~0°C) SAE 40 (0°C~40°C)
	• Lubrication Intervals	Once/Weekly
	• Methods	dropping or coating

CHAIN LENGTH ADJUSTMENT

When there isn't enough tension in the chain becomes slack, which results in unsmooth conveyance. In particular, when the slack is extreme, the chain will coil around the sprocket, interrupt with the rail, and can cause accidents.

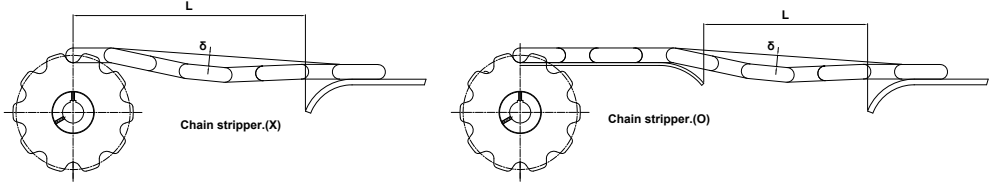
CHECK UP (1 day 8 hours operation basis)	
Within 1 week after first operation	once a month
Within 1 month after first operation	once a week
After 1 month after first operation	twice a month

* The above table is typically used for continuous, repeated operation, but inspection should increase when applied to harsh conditions such as high temperature and corrosion.

PRIORITIES FOR TENSION ADJUSTMENT

- Allow enough slack that chains can be easily taken off of sprockets
- Secure enough space for chains or aprons so as not to interfere with the frame or rail
- Adjust to avoid surging

ADJUSTMENT
EXAMPLE



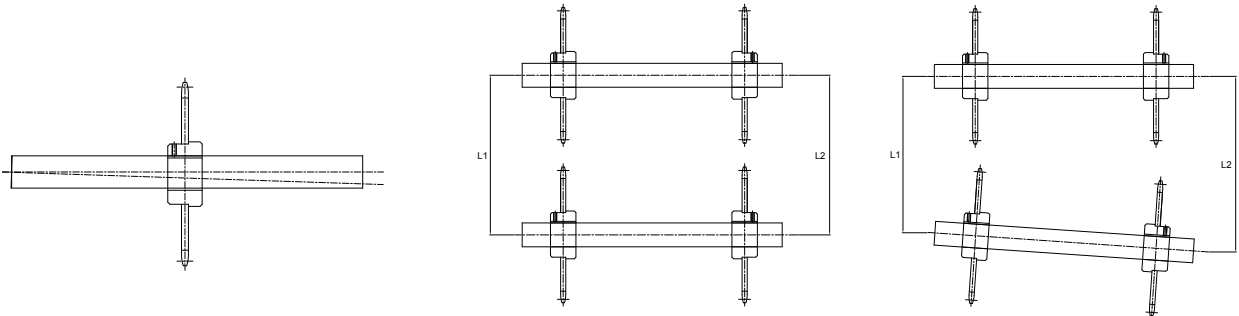
Horizontality flow conveyor	$\delta = 1/10L-1/20L$
When it occur moving and to stop repeatedly When the chain speed is fast(25m/min) When the size of the chain and the weight of transported material are bigger. In case of high temperature material.	$\delta = 1/15L-1/25L$

SPROCKET ALIGNMENT

Properly aligned sprockets and shafts will ensure the longevity of conveyor chains. Vibration during operation, ground subsidence, etc., may change the alignment, causing wear to the side of the sprockets, which in turn can damage the chains. The following points should be observed when installing sprockets.

LEVEL OF SHAFT

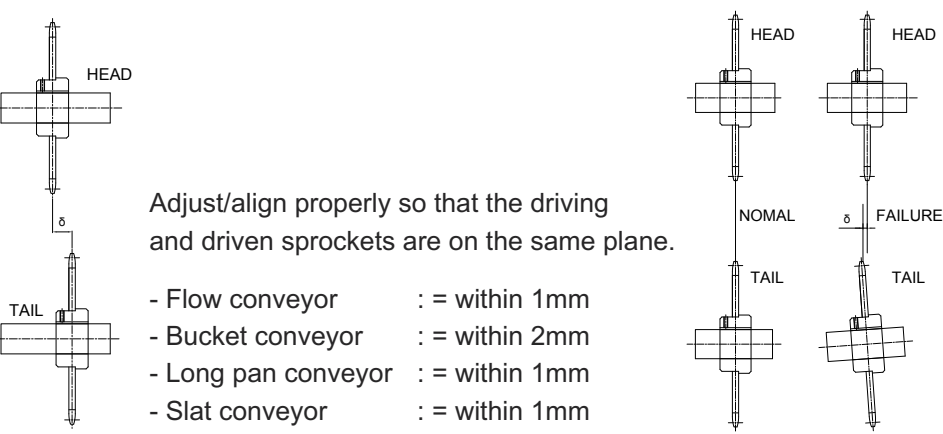
PARALLELISM OF SHAFT



The parallelism (L1-L2) should be adjusted by ± 1mm

Flow conveyor	$\pm 1.0mm$ 1m	within
Bucket conveyor	$\pm 0.5mm$ 1m	within
Long pan conveyor	$\pm 0.5mm$ 1m	within
Slat conveyor	$\pm 0.5mm$ 1m	within

ALIGNMENT OF SPROCKET



Adjust/align properly so that the driving and driven sprockets are on the same plane.

- Flow conveyor : = within 1mm
- Bucket conveyor : = within 2mm
- Long pan conveyor : = within 1mm
- Slat conveyor : = within 1mm

One sprocket leans to one side(Incorrect)

Tolerance
Less than 10mm : ±8mm
Over than 10mm : ±10mm

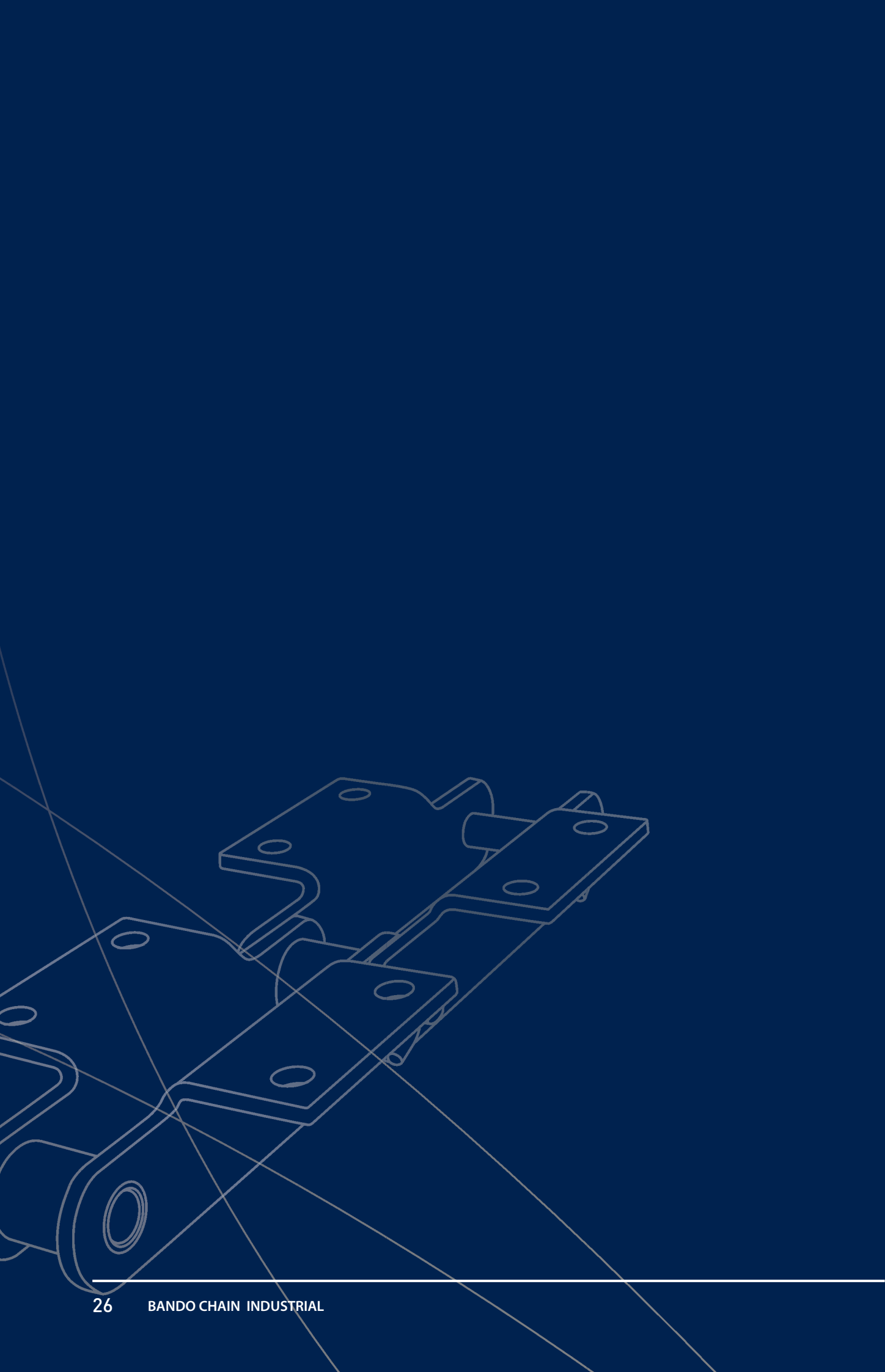
PROBLEM & SOLUTION OF CONVEYOR CHAIN

PROBLEM	CAUSE	SOLUTION
Wear chain inner link plate or the side part of sprocket teeth	Sprocket alignment failure	Take off the chains and realign sprockets.
	Chain pressed in the transverse direction	Use the guide shoe and guide roller.
	Sprockets are swaying.	Replace with a new one.
The failure of the roller rotation	Excessive load on roller	Lubricant between bushes to rollers. Contact us for Specifications.
	The prevention of foreign substances to enter and jam the space between bush and roller.	Clean regularly. Protect chains with partition. Select chains whose bushes are at a longer distance from rollers.
	Accumulation of foreign substances on the rails	Clean regularly. Protect chains whit partitions.
	Adhesion of lubrication to the surface of the rails or between bush to rollers.	Use a proper lubricant and lubrication method.
	Sticking rust of the rollers and/or bushes.	Contact us for Specifications.
Bending failure	Rusted	Protect chains whit partitions. , Contact us for Specification.
	The transported material's and /or foreign substance breaking into the pins and bushes.	Protect chains whit partitions. Select the specification for bushes and pins which have large gaps.
The chain is entangled on the sprocket.	Excessive elongation of the chain	Take up the slack, or insert a tightener.
	Wear of sprocket	Chain should be replaced.
The chain does not move or roll up by sprocket.	Chain and sprocket are not compatible	Replace the chain or sprocket.
	Severely overloaded	Reduce the load. (or fit with shock absorbers, etc.)
	Over elongation by chain wear.	Replace with a new chain.
Occurrence of chain stick-slip and surging	Too slow	High-Speed Operation.
	Others	Improve frame rigidity. Choose high grade chain. Choose surging prevention spec. Reduce the slack of driving roller chains.
Wear of the sprocket teeth root	Insufficient number of engaging teeth	Increases of sprocket teeth.
	Others	Use hardening sprockets or teeth-replacing sprockets.
Wear of the inner link holes of block chains or pins.	Excessive inner tension.	Mount the PIECE to sprocket. Lubricate to both sides of the chain and sprocket.
Noise	Lack of lubrication to the bushes and/or rollers	Sufficient lubrication, use bearing rollers or Plastic rollers.
	Lack of lubrication to the mounting parts of pins and/or bushes	Sufficient lubrication.
	The collision of rollers and sprockets	Lubricate for sprockets, using plastic rollers.

STANDARD CONVEYOR CHAIN & SPROCKET

- Standard Conveyor chain
- Attachments for Standard Conveyor chain
- Standard Sprocket





STANDARD CONVEYOR CHAIN

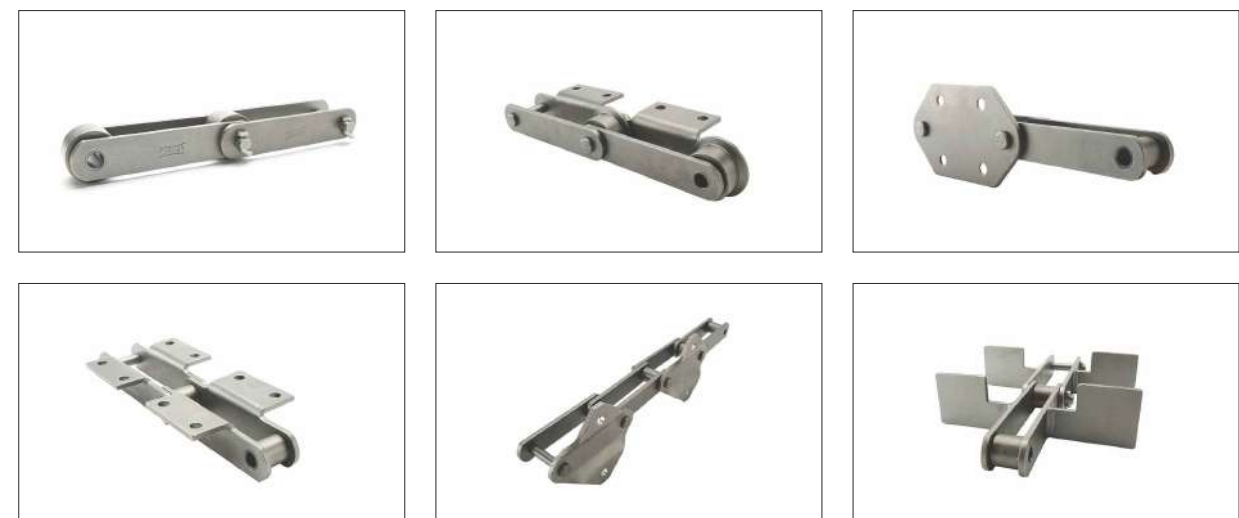
CHAIN NUMBERING SYSTEM

BD	10100	R	A2	B/A
Company abbreviation	Chain grade	Roller type	Attachment type	Attachment distance

ex) BD10100R A2 1/2

- Chain grade : 10100
- Roller type : R
- Attachment type : A2
- Attachment distance : 1EA per 2LK

Standard conveyor chain arrangement



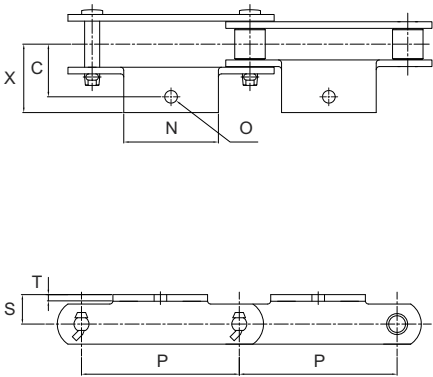
(Unit: mm)

(Unit: mm)

www.bandochain.com 29

STANDARD ATTACHMENT FOR CONVEYOR CHAIN

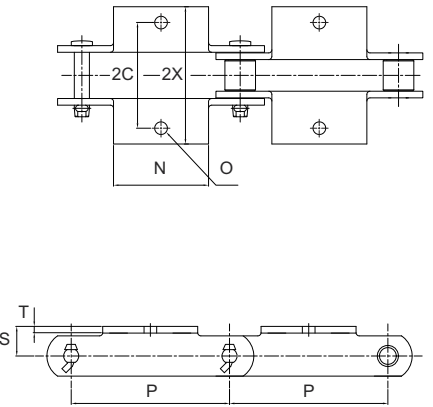
A1 Attachment



(Unit: mm)

BANDO Chain No.	P	S	C	X	N	T	O	BOLT	WEIGHT (kg/pc)
BD03075	75	20	30	46	55	3.2	10	M8	0.05
BD03100	100				65				0.06
BD430	101.6	22	40	54	70	4.5(5.0)	12	M10	0.11
BD05075	75	22	35	47	55	4.5	10	M8	0.03
BD05100	100				65				0.08
BD05125	125				75				0.09
BD05150	150				85				0.10
BD204	66.27	24	45	59	35	6.3(6.0)	12	M10	0.08
BD450	101.6	28	50	64	70	6.3(6.0)	12	M10	0.18
BD08150	150	28	50	64	90	6.3(6.0)	12	M10	0.22
BD650	152.4	32	50	64	90	6.3(6.0)	12	M10	0.22
BD10100	100	28	50	65	70	6.3(6.0)	12	M10	0.16
BD10125	125				75				0.17
BD10150	150				90				0.20
BD10200	200				120				0.28
BD214	101.6	35	55	73	80	7.9	15	M12	0.28
BD6205	152.4	38	60	79	100	7.9	15	M12	0.37
BD12200	200	38	60	79	120	7.9	15	M12	0.45
BD12250	250				165				0.62
BD212	152.4	45	65	83	100	9.5(10.0)	15	M12	0.49
BD17200	200	45	75	91	120	9.5(10.0)	15	M12	0.66
BD17250	250				165				0.79
BD17300	300				220				1.34

K1 Attachment

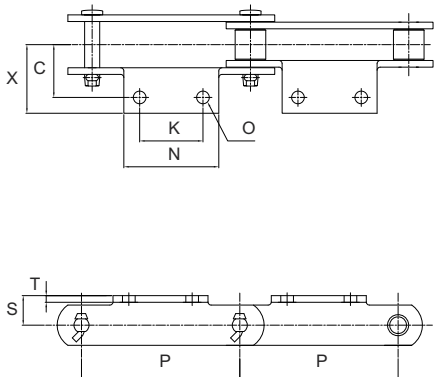


(Unit: mm)

BANDO Chain No.	P	S	2C	2X	N	T	O	BOLT	WEIGHT (kg/pc)
BD03075	75	20	60	92	55	3.2	10	M8	0.10
BD03100	100				65				0.12
BD430	101.6	22	80	108	70	4.5(5)	12	M10	0.22
BD05075	75	22	70	94	55	4.5	10	M8	0.06
BD05100	100				65				0.16
BD05125	125				75				0.18
BD05150	150				85				0.20
BD204	66.27	24	90	118	35	6.3(6)	12	M10	0.16
BD450	101.6	28	100	128	70	6.3(6)	12	M10	0.36
BD08150	150	28	100	128	90	6.3(6)	12	M10	0.44
BD650	152.4	32	100	128	90	6.3(6)	12	M10	0.44
BD10100	100	28	100	130	70	6.3(6.0)	12	M10	0.32
BD10125	125				75				0.34
BD10150	150				90				0.40
BD10200	200				120				0.56
BD214	101.6	35	110	146	80	7.9	15	M12	0.56
BD6205	152.4	38	120	158	100	7.9	15	M12	0.74
BD12200	200	38	120	158	120	7.9	15	M12	0.90
BD12250	250				165				1.24
BD212	152.4	45	130	166	100	9.5(10)	15	M12	0.98
BD17200	200	45	150	182	120	9.5(10)	15	M12	1.32
BD17250	250				165				1.58
BD17300	300				220				2.68

※Indicated in parentheses are stainless steel.

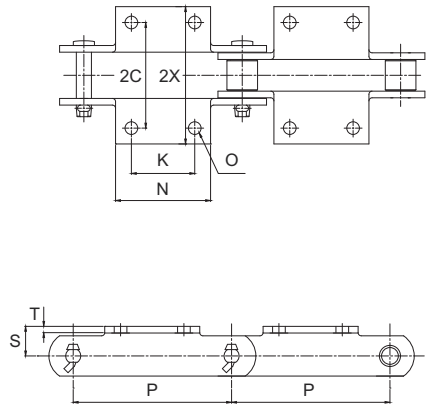
A2 Attachment



(Unit: mm)

BANDO Chain No.	P	S	C	X	N	K	T	O	BOLT	WEIGHT (kg/pc)
BD03075	75	20	30	46	55	30	3.2	10	M 8	0.05
BD03100	100				65	40				0.06
BD430	101.6	22	40	54	70	40	4.5(5.0)	12	M10	0.11
BD05075	75	22	35	47	55	30	4.5	10	M 8	0.07
BD05100	100				65	40				0.08
BD05125	125				75	50				0.09
BD05150	150				85	60				0.10
BD204	66.27	24	45	59	55	35	6.3(6.0)	12	M10	0.13
BD450	101.6	28	50	64	70	40	6.3(6.0)	12	M10	0.18
BD08150	150	28	50	64	90	60	6.3(6.0)	12	M10	0.22
BD650	152.4	32	50	64	90	60	6.3(6.0)	12	M10	0.22
BD10100	100	28	50	65	70	40	6.3(6.0)	12	M10	0.16
BD10125	125				75	50				0.17
BD10150	150				90	60				0.20
BD10200	200				120	80				0.28
BD214	101.6	35	55	73	80	40	7.9	15	M12	0.28
BD205	78.11	35	60	75	65	30	7.9	12	M10	0.23
BD6205	152.4	38	60	79	100	60	7.9	15	M12	0.37
BD12200	200	38	60	79	120	80	7.9	15	M12	0.45
BD12250	250				165	125				0.62
BD212	152.4	45	65	83	100	60	9.5(10.0)	15	M12	0.49
BD17200	200	45	75	91	120	80	9.5(10.0)	15	M12	0.66
BD17250	250				165	125				0.79
BD17300	300				220	180				1.34
BD26200	200	55	80	108	120	80	9.5(10.0)	15	M12	0.78
BD26250	250				165	125				1.07

K2 Attachment



(Unit: mm)

BANDO Chain No.	P	X	2C	2X	N	K	T	O	BOLT	WEIGHT (kg/pc)
BD03075	75	20	60	92	55	30	3.2	10	M8	0.10
BD03100	100				65	40				0.12
BD430	101.6	22	80	108	70	40	4.5(5.0)	12	M10	0.22
BD05075	75	22	70	94	55	30	4.5	10	M8	0.14
BD05100	100				65	40				0.16
BD05125	125				75	50				0.18
BD05150	150				85	60				0.20
BD204	66.27	24	90	118	55	35	6.3(6.0)	12	M10	0.26
BD450	101.6	28	100	128	70	40	6.3(6.0)	12	M10	0.36
BD08150	150	28	100	128	90	60	6.3(6.0)	12	M10	0.44
BD650	152.4	32	100	128	90	60	6.3(6.0)	12	M10	0.44
BD10100	100	28	100	130	70	40	6.3(6.0)	12	M10	0.32
BD10125	125				75	50				0.68
BD10150	150				90	60				0.40
BD10200	200				120	80				0.56
BD214	101.6	35	110	146	80	40	7.9	15	M12	0.56
BD205	78.11	35	120	150	65	30	7.9	12	M10	0.46
BD6205	152.4	38	120	158	100	60	7.9	15	M12	0.74
BD12200	200	38	120	158	120	80	7.9	15	M12	0.90
BD12250	250				165	125				1.24
BD212	152.4	45	130	166	100	60	9.5(10)	15	M12	0.98
BD17200	200	45	150	182	120	80	9.5(10)	15	M12	1.32
BD17250	250				165	125				1.58
BD17300	300				220	180				2.68
BD26200	200	55	160	216	120	80	9.5(10)	15	M12	1.56
BD26250	250				165	125				2.14

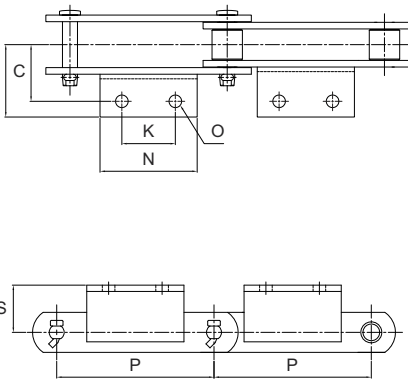
※Indicated in parentheses are stainless steel.

WELDED ATTACHMENT

If chain pitch meets or exceeds 300 mm, Use to weld the angle.

A2 Attachment

(Welding type)

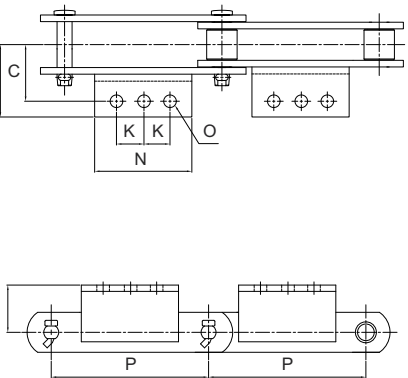


(Unit: mm)

BANDO Chain No.	P	S	C	X	K	N	O	ANGLE SIZE	BOLT	WEIGHT (kg/pc)
BD17300	300	45	75	110.5	180	220	15	L65 x 65 x 6	M12	1.34
BD26300	300	55	80	123.5	180	220	15	L75 x 75 x 9	M12	2.22
BD26450	450				280	320				3.26
BD36300	300	70	100	160	100	160	19	L100x100x10	M16	2.50
BD36450	450				280	330				5.07
BD36600	600				360	410				6.26
BD52300	300	80	120	171.4	100	160	24	L100x100x13	M20	3.10
BD52450	450				280	330				6.30
BD52600	600				360	410				7.80
BD60300	300	90	115	165	110	170	24	L100x100x13	M20	3.30
BD60350	350				160	220				4.20
BD60400	400				200	260				6.00
BD90350	350	100	140	210	100	180	28	L130x130x15	M24	5.20
BD90400	400				150	230				6.60
BD90500	500				260	340				9.80
BD120400	400	120	150	220	120	200	28	L130x130x15	M24	5.80
BD120600	600				320	400				11.50

A3 Attachment

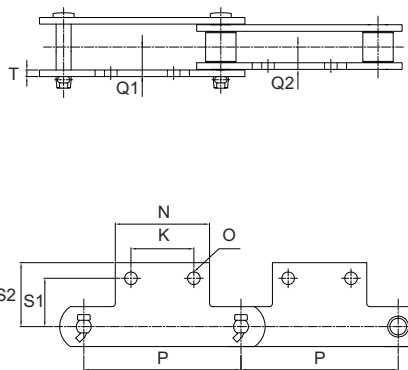
(Welding type)



(Unit: mm)

BANDO Chain No.	P	S	C	X	K	N	O	ANGLE SIZE	BOLT	WEIGHT (kg/pc)
BD26450	450	55	80	123.5	140	320	15	L75 x 75 x 9	M12	3.26
BD36450	450	70	100	160	140	330	19	L100x100x10	M16	5.07
BD36600	600				180	410				6.26
BD52450	450	80	120	171.4	140	330	24	L100x100x13	M20	6.30
BD52600	600				180	410				7.80
BD60350	350	90	115	165	80	220	24	L100x100x13	M20	4.20
BD60400	400				100	260				6.00
BD90500	500	100	140	210	130	340	28	L130x130x15	M24	9.80
BD120600	600	220	150	220	160	400	28	L130x130x15	M24	11.50

SA2 Attachment

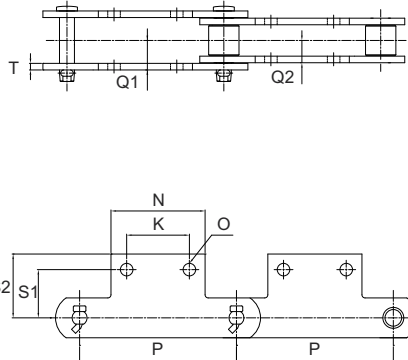


(Unit: mm)

BANDO Chain No.	P	S1	S2	Q1	Q2	K	N	T	O	BOLT	WEIGHT (kg/pc)
BD03075	75	33	49	15.5	11.5	30	55	3.2	10	M 8	0.05
BD03100	100					40	65				0.06
BD430	101.6	37.6	51.6	22(22.5)	16(16.5)	40	70	4.5(5)	12	M10	0.11
BD05100	100	33.4	50.7	21	15.5	40	65	4.5	10	M 8	0.08
BD05125	125					50	75				0.09
BD05150	150					60	85				0.10
BD450	101.6	47.6	60.7	27(26.5)	20(19.5)	40	70	6.3(6)	12	M10	0.18
BD08150	150	46.1	58.7	27(26.5)	20(19.5)	60	90	6.3(6)	12	M10	0.22
BD650	152.4	50	63	28.5(28)	21.5(21)	60	90	6.3(6)	12	M10	0.22
BD10100	100	46.1	61	28.5(28)	21.5(21)	40	70	6.3(6)	12	M10	0.16
BD10125	125					50	75				0.17
BD10150	150					60	90				0.20
BD10200	200	50	70	32.5	23.5	80	120	7.9	15	M12	0.28
BD214	101.6					40	80				0.28
BD6205	152.4	55	75.7	35.5	26.5	60	100	7.9	15	M12	0.37
BD12200	200	55	75.7	35.5	26.5	80	120	7.9	15	M12	0.45
BD12250	250					125	165				0.62
BD212	152.4	60	83.6	38(39.5)	28(28.5)	60	100	9.5(10)	15	M12	0.49

※ Indicated in parentheses are stainless steel.

SK2 Attachment

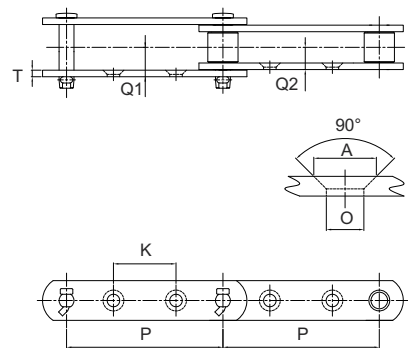


(Unit: mm)

BANDO Chain No.	P	S1	S2	Q1	Q2	K	N	T	O	BOLT	WEIGHT (kg/pc)
BD03075	75	33	49	15.5	11.5	30	55	3.2	10	M 8	0.10
	100					40	65				0.12
BD430	101.6	37.6	51.6	22(22.5)	16(16.5)	40	70	4.5(5.0)	12	M10	0.22
BD05100	100	33.4	50.7	21	15.5	40	65	4.5	10	M 8	0.16
BD05125	125					50	75				0.18
BD05150	150					60	85				0.20
BD450	101.6	47.6	60.7	27(26.5)	20(19.5)	40	70	6.3(6.0)	12	M10	0.36
BD08150	150	46.1	58.7	27(26.5)	20(19.5)	60	90	6.3(6.0)	12	M10	0.44
BD650	152.4	50	63	28.5(28)	21.5(21)	60	90	6.3(6.0)	12	M10	0.44
BD10100	100	46.1	61	28.5(28)	21.5(21)	40	70	6.3(6.0)	12	M10	0.32
BD10125	125					50	75				0.34
BD10150	150					60	90				0.40
BD10200	200	50	70	32.5	23.5	80	120	7.9	15	M12	0.56
BD214	101.6					40	80				0.56
BD6205	152.4	55	75.7	35.5	26.5	60	100	7.9	15	M12	0.74
BD12200	200	55	75.7	35.5	26.5	80	120	7.9	15	M12	0.90
BD12250	250					125	165				1.24
BD212	152.4	60	83.6	38(39.5)	28(28.5)	60	100	9.5(10)	15	M12	0.98

※ Indicated in parentheses are stainless steel.

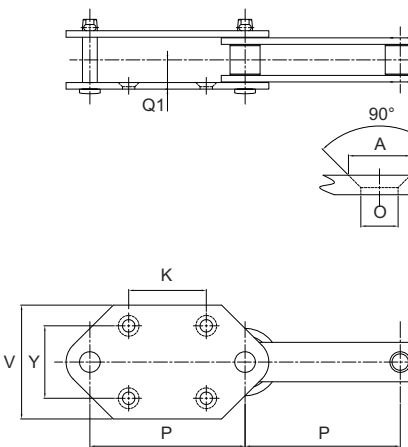
G2 Attachment



(Unit: mm)

BANDO Chain No.	P	K	T	Q1	Q2	A	O	MAXIMUM LENGTH		BOLT
								PIN LINK	BUSH LINK	
BD03075	75	30	3.2	15.2	11.3	13.5	8	26	19	M 6
BD03100	100	50								
BD05100	100	40	4.5	21	15.5	15	10	36	26	M 8
BD05150	150	60								
BD08150	150	60	6.3	27	20	20	12	45	31	M10
BD650	152.4	60	6.3(6)	28.5(28)	21.5(21)	20	12	49	35	M10
BD10100	100	30	6.3(6)	28.5(28)	21.5(21)	20	12	49	35	M10
BD10150	150	60								
BD6205	152.4	50	7.9	35.5	26.5	26	15	63	45	M12
BD12200	200	80	7.9	35.5	26.5	26	15	63	45	M12
BD12250	250	125								
BD17200	200	70	9.5 (10)	45.5 (46.5)	35 (35.5)	26	15	81	61	M12
BD17250	250	110								
BD17300	300	150								
BD26300	300	140	9.5(10)	48(49)	38(38.5)	26	15	88	67	M12
BD26450	450	220								
BD36450	450	220	12.7	59.5	46	32	19	105	75	M16
BD36600	600	300								
BD52450	450	200	16	71.5	45.5	38	24	125	90	M20
BD52600	600	300								

G4 Attachment



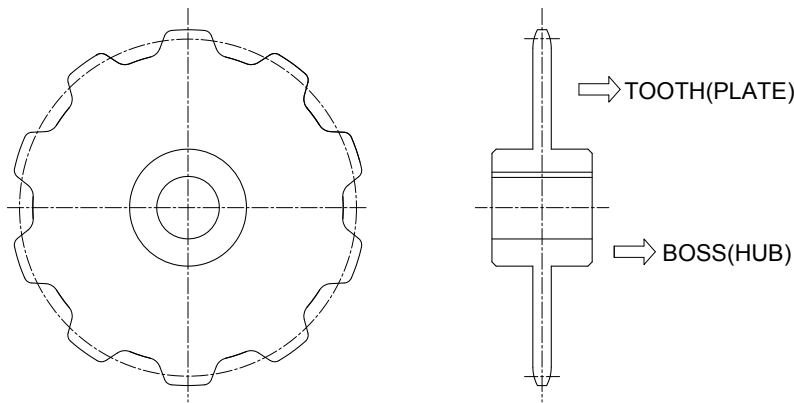
(Unit: mm)

BANDO Chain No.	P	V	K	Y	T	Q1	A	O	BOLT	WEIGHT (kg/pc)
BD05100	100	80	50	50	4.5	21	15	10	M 8	4.6
BD05150	150		70							4.1
BD650	152.4	110	75	70	6.3	28.5	20	12	M10	7.2 (7.6)
BD10150	150	110	75	70	6.3	28.5	20	12	M10	7.2 (7.4)
BD6205	152.4	110	75	70	7.9	35.5	26	15	M12	11.0 (11.3)
BD12200	200	110	100	70	7.9	35.5	26	15	M12	10.2 (10.5)
BD17200	200	120	100	80	9.5	45.5	26	15	M12	14.0 (14.6)
BD17250	250	150	140	100					M12	14.5 (15.0)
BD26200	200	120	100	80	9.5	48	26	15	M12	17.5 (18.5)
BD26250	250	150	140	100					M12	17.6 (18.4)
BD26300	300	150	180	100					M12	16.7 (17.4)
BD36250	250	150	140	100	12.7	60	32	19	M16	27.6 (28.6)
BD36300	300		180							26.2 (27.1)

※ 1. Indicated in parentheses are stainless steel.
2. Indicated in parentheses of weight are using M roller.

STANDARD SPROCKET

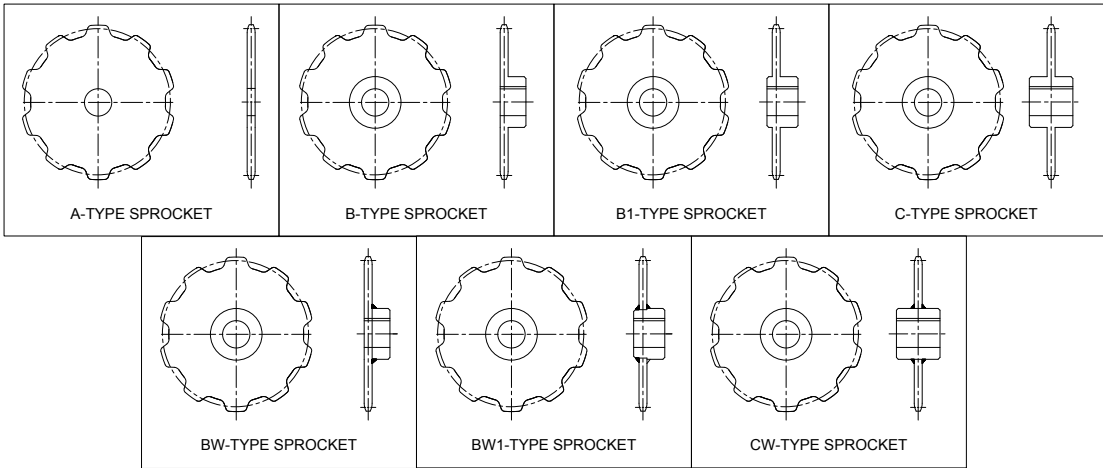
SPROCKET NUMBERING SYSTEM & STRUCTURE

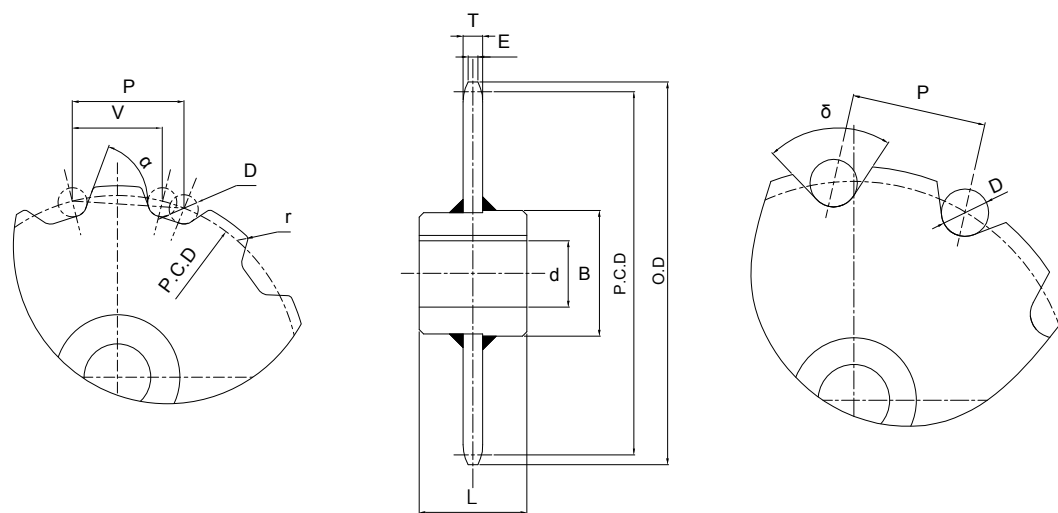


BD	10100	R	6NT	B/W	S45C
Company abbreviation	Chain grade	Roller type	No. of the teeth	Boss(Hub) type	Main material

ex) BD10100R 6NT BW S45C

- Chain grade :10100
- Roller type : R
- No. of the teeth : 6
- Boss(Hub) type : BW
- Material : S45C





$$P.C.D = \frac{P}{\sin(180^\circ/N)} \text{ (Show up to 0.1mm)}$$
$$O.D = P.C.D + 0.7R \text{ (K attachment should be designed)}$$
$$D = R + C$$

Values C			
	Major Steel Teeth	Precision short Teeth	Machine Made Teeth
Up to 50	3	2	1
Over 50~100	4	2	1
Over 100	5	3	2
0.1mm and less	Rounded off	Rounded off	2 or less

V=3D(if R<H) Normal(S.M Roller)
2D(if R>H) R.F Roller

But, if V≤P-5
$$\alpha = 90^\circ - (26^\circ - \frac{92^\circ}{N}) = 64^\circ + \frac{92^\circ}{N} \text{ (Pressure angle)}$$

Table α (Tooth angles) (Unit: mm)

Teeth Number	α	Teeth Number	α
6	79.3	19	68.8
7	77.1	20	68.6
8	75.5	21	68.4
9	74.2	22	68.2
10	73.2	23	68.0
11	72.9	24	67.8
12	71.7	25	67.7
13	71.1	26	67.5
14	70.6	27	67.4
15	70.1	28	67.3
16	69.8	29	67.2
17	69.4	30	67.1
18	69.1		

$$\gamma = \frac{O.D - P.C.D}{2} \text{ In principle}$$

Table δ (Tooth angles) (Unit: mm)

Teeth Number	δ	Teeth Number	δ
6	81.4	19	61.4
7	77.2	20	60.8
8	74.0	21	60.4
9	71.6	22	60.0
10	69.6	23	59.6
11	67.0	24	59.4
12	66.6	25	59.0
13	65.4	26	58.8
14	64.6	27	58.6
15	63.8	28	58.2
16	63.0	29	58.0
17	62.4	30	57.8
18	61.8		

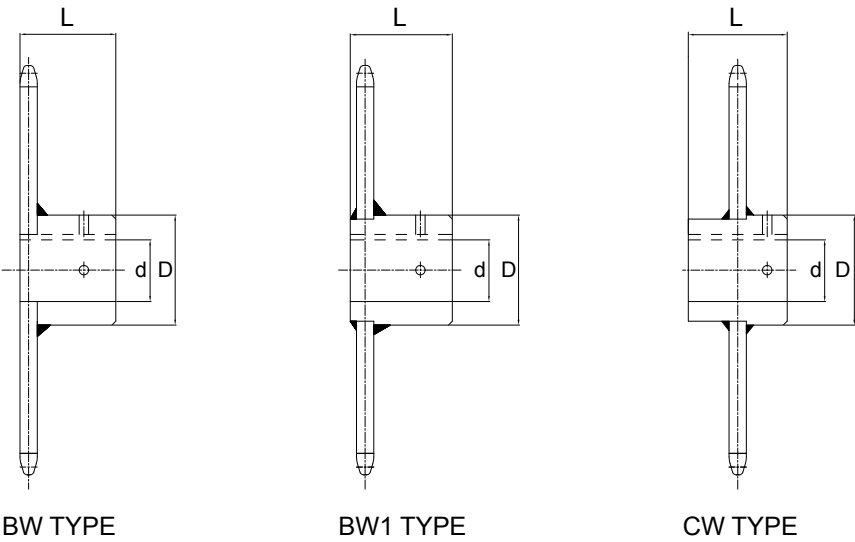
$$L = (1.1 \sim 1.5)d \text{ Generally 1.3d}$$
$$B = \epsilon d + 2b + 5$$

	FC		SC, SF, SS	
	min	nor	min	nor
ε	1.6	1.8	1.45	1.65

$$T = 0.75W \sim 0.8W \quad E = \frac{T}{2}$$

GLOSSARY

- P.C.D : Pitch dia. (mm)
O.D : Outer dia. of sprocket (mm)
R : Outer dia. of roller (mm)
N : The number of teeth
P : Chain pitch (mm)
r : Round outer dia. of sprocket
T : Sprocket thickness (mm)
- L : Length of boss
B : Outer dia. of boss
d : Inner dia. of boss
b : Height of the key (the boss side)
W : Inner width of chains
H : Height of plate



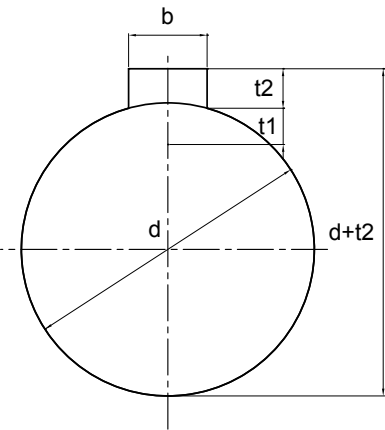
The dimensions of boss(Selection)

DIA. OF BOSS (HUB) D	BOSS(HUB) LEHGH L		SHAFT DIA. RANGE		APPROX. WEIGHT	
	I	II	BW BW1	CW	BOSS LENGTH I	BOSS LENGTH II
65	40	50	25~40	25~38	1.0	1.2
70	45	55	25~45	25~40	1.3	1.6
75	50	60	25~50	25~45	1.7	2.0
85	55	70	25~55	25~45	2.4	3.0
90	60	75	25~56	25~55	2.9	3.6
100	65	80	30~65	30~60	3.8	4.7
110	75	90	30~75	30~70	5.4	6.4
120	80	100	35~80	35~75	6.7	8.4
130	85	105	35~85	35~80	8.4	10.4
140	95	115	40~95	40~90	10.8	13.1
150	100	125	40~100		13.2	16.4
160	110	135	45~110		16.3	20.0
180	120	150	50~120		22.5	28.1
190	130	160	50~130		27.4	33.7
210	145	180	55~145		37.2	46.2
230	160	200	55~160		50.0	63.0

Maximum allowable Dia.Of boss

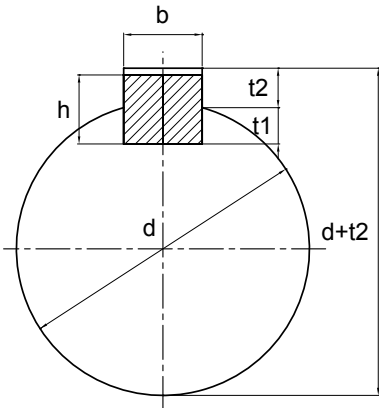
Teeth No.	6	7½	8	10	12	12½
BANDO Chain No.						
BD03075	90	125	130	170	210	230
BD03100	130	170	190	250	310	330
BD430	130	170	190	250	310	330
BD05075	-	-	120	165	200	-
BD05100	120	160	180	240	300	320
BD05125	155	220	240	320	400	420
BD05150	200	270	290	390	490	520
BD204	-	-	110	150	190	-
BD450	120	170	180	230	300	330
BD08125	160	220	230	310	390	420
BD08150	200	270	290	390	490	520
BD650	200	270	290	390	490	520
BD10100	115	-	170	230	290	-
BD10125	150	210	230	300	380	410
BD10150	195	260	290	380	480	510
BD205	-	-	130	170	220	-
BD214	120	-	180	240	300	-
BD6205	185	250	280	370	470	500
BD12200	260	360	390	520	640	690
BD12250	340	470	510	680	830	880
BD212	180	-	270	370	470	-
BD17200	250	350	370	500	620	680
BD17250	340	460	500	660	810	870
BD17300	420	570	630	820	1,000	1,070

KS PARALLEL GRADIENT KEY HOLE DIMENSIONS(JIS B 1301 - 1959)

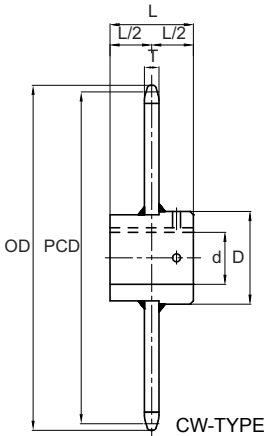
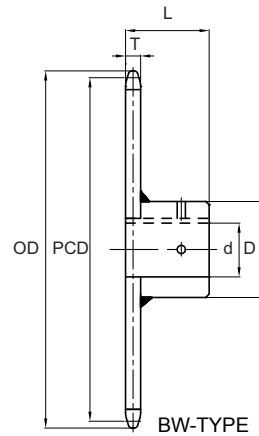
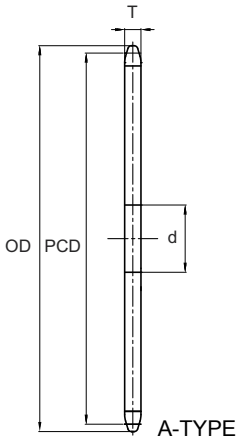


SHAFT DIA. d		KEY No. WIDTH b x (t2+t1)	DEPTH OF KET HOLES	
			SHAFT t1	BOSS d+t2
Over 10	Under 13	4×4	2.5	d+1.5
" 13	" 20	5×5	3.0	d+2.0
" 20	" 30	7×7	4.0	d+3.0
" 30	" 40	10×8	4.5	d+3.5
" 40	" 50	12×8	4.5	d+3.5
" 50	" 60	15×10	5	d+5
" 60	" 70	18×12	6	d+6
" 70	" 80	20×13	7	d+6
" 80	" 95	24×16	8	d+8
" 95	" 110	28×18	9	d+9
" 110	" 125	32×20	10	d+10
" 125	" 140	35×22	11	d+11
" 140	" 160	38×24	12	d+12
" 160	" 180	42×26	13	d+13
" 180	" 200	45×28	14	d+14
" 200	" 224	50×31.5	16	d+15.5
" 224	" 250	56×35.5	18	d+17.5

KS KEY HOLE DIMENSIONS (JIS 1301 - 1976)



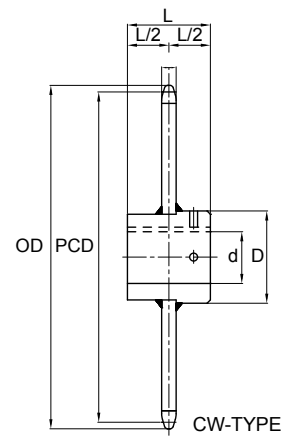
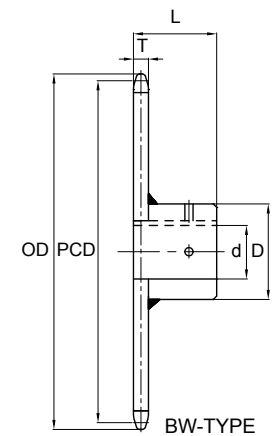
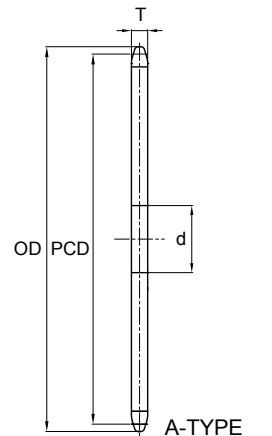
SHAFT DIA. d		KEY No. WIDTH * HIGHT b + h	SHAFT t1	DEPTH OF KET HOLES	
				BOSS d+t2	
				PARALLEL KEY	INCLINED KEY
Over 6	Under 8	2x2	1.2	d+1.0	d+0.5
" 8	" 10	3x3	1.8	d+1.4	d+0.9
" 10	" 12	4x4	2.5	d+1.8	d+1.2
" 12	" 17	5x5	3.0	d+2.3	d+1.7
" 17	" 22	6x6	3.5	d+2.8	d+2.2
" 20	" 25	(7X7)	4.0	d+3.0	d+3.0
" 22	" 30	8x7	4.0	d+3.3	d+2.4
" 30	" 38	10x8	5.0	d+3.3	d+2.4
" 38	" 44	12x8	5.0	d+3.3	d+2.4
" 44	" 50	14x9	5.5	d+3.8	d+2.9
" 50	" 55	(15x10)	5.0	d+5.0	d+5.0
" 50	" 58	16x10	6.0	d+4.3	d+3.4
" 58	" 65	18x11	7.0	d+4.4	d+3.4
" 65	" 75	20x12	7.5	d+4.9	d+3.9
" 75	" 85	22x14	9.0	d+5.4	d+4.4
" 80	" 90	(24x16)	8.0	d+8.0	d+8.0
" 85	" 95	25x14	9.0	d+5.4	d+4.4
" 95	" 110	28x16	10.0	d+6.4	d+5.4
" 110	" 130	32x18	11.0	d+7.4	d+6.4
" 125	" 140	(35x22)	11.0	d+11.0	d+11.0
" 130	" 150	36x20	12.0	d+8.4	d+7.1
" 140	" 160	(38x24)	12.0	d+12.0	d+12.0
" 150	" 170	40x22	13.0	d+9.4	d+8.1
" 160	" 180	(42x26)	13.0	d+13.0	d+13.0
" 170	" 200	45x25	15.0	d+10.4	d+9.1
" 200	" 230	50x28	17.0	d+11.4	d+10.1



(Unit: mm)

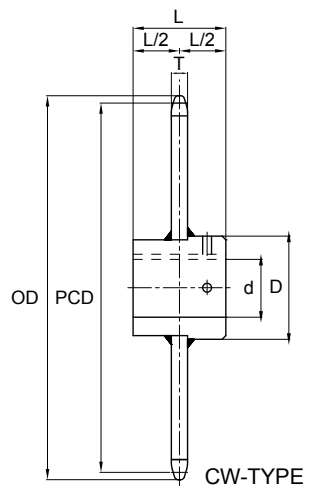
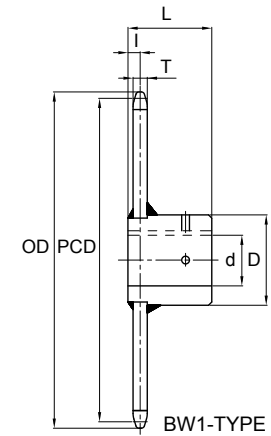
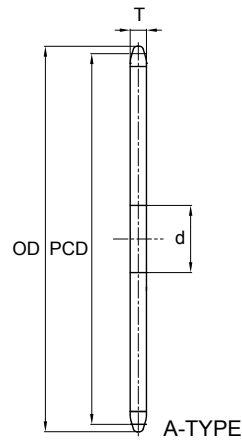
BANDO Chain No.	ROLLER	No. OF TEETH	GENERAL			A TYPE		BW TYPE				CW TYPE				
			P.C.D	O.D	T	INNER DIA. d	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	WEIG HT (kg)	
BD03075	R	6	150.0	158	12	20	2	25~40	65	52	3	25~40	70	55	3.5	
		8	196.0	209	12	20	3	25~45	70	57	4.5	25~45	75	60	4.5	
		10	242.7	259	12	20	4.5	25~50	75	62	6	25~50	85	70	7	
	F	12	289.8	308	12	20	6	25~50	75	62	8	25~50	85	70	8.5	
		6	150.0	158	9	20	1.5	25~40	65	49	2.5	25~40	70	55	3	
		8	196.0	209	9	20	2	25~45	70	54	3.5	25~45	75	60	4	
	S	10	242.7	259	9	20	3.5	25~50	75	59	5	25~50	85	70	6	
		12	289.8	308	9	20	4.5	25~50	75	59	6.5	25~50	85	70	7	
		6	150.0	158	12	20	2	25~40	65	52	3	25~45	75	60	3.5	
		7½	184.4	194	12	20	2.5	25~45	70	57	4	25~50	85	70	4.5	
		8	196.0	206	12	20	3	25~45	70	57	4.5	25~50	85	70	5	
		10	242.7	252	12	20	4.5	25~50	75	62	6.5	25~50	85	70	7.5	
BD03100	R	12	289.8	299	12	20	6.5	25~50	75	62	8.5	25~55	90	75	9	
		12½	301.6	311	12	20	6.5	25~50	75	62	8.5	25~55	90	75	9	
		6	200.0	206	12	20	3	25~45	70	57	4.5	25~45	75	60	4.5	
	F	8	261.3	272	12	20	5	25~50	75	62	6.5	25~50	85	70	7.5	
		10	323.6	336	12	20	7.5	25~50	75	62	9.5	25~50	85	70	10	
		12	386.4	401	12	20	11	25~55	85	67	14	25~55	90	75	14	
	S	6	200.0	206	9	20	2	25~45	70	54	3.5	25~45	75	60	4	
		8	261.3	272	9	20	4	25~50	75	59	5.5	25~50	85	70	6.2	
		10	323.6	336	9	20	6	25~50	75	59	7.5	25~50	85	70	8.5	
		12	386.4	401	9	20	8.5	25~55	85	64	11	25~55	90	75	12	
		6	200.0	210	12	20	3	25~45	70	57	4.5	25~45	75	60	5	
		7½	245.9	253	12	20	4.5	25~50	75	62	6	25~50	85	70	7	
BD430	R	8	261.3	269	12	20	5.5	25~50	75	62	7	25~50	85	70	8	
		10	323.6	333	12	20	8	25~50	75	62	10	25~50	85	70	11	
		12	386.4	396	12	20	12	25~55	85	67	14	25~55	90	75	15	
	S	12½	402.1	412	12	20	12	25~55	85	67	14	25~55	90	75	15	
		6	203.2	211	16	20	3.5	25~55	85	71	6	25~55	90	75	6.5	
		8	265.5	277	16	20	6.5	25~60	90	76	10	30~60	100	80	11	
		10	328.8	345	16	20	10	30~65	100	81	14	30~70	110	90	16	
		12	392.6	411	16	20	15	30~65	100	81	19	30~70	110	90	20	
		6	203.2	215	16	20	4	25~55	85	71	6.5	25~55	90	75	7	
	BD05075	R	7½	249.8	260	16	20	6	25~60	90	76	9	30~60	100	80	10
			8	265.5	277	16	20	7.5	25~60	90	76	11	30~60	100	80	12
			10	328.8	341	16	20	11	30~65	100	81	15	30~70	110	90	17
S		12	392.6	405	16	20	16	30~65	100	81	20	30~70	110	90	21	
		12½	408.5	421	16	20	16	30~65	100	81	20	30~70	110	90	22	
		8	196.0	209	16	20	4	25~60	90	76	7	30~60	100	80	8	
		10	242.7	256	16	20	6	30~65	100	81	10	30~70	110	90	12	
		12	289.8	303	16	20	9	30~65	100	81	13	30~70	110	90	14	
		6	200.0	205	16	20	3.5	25~60	90	76	6.5	30~60	100	80	7.5	
BD05100		R	8	261.3	273	16	20	6.5	30~65	100	81	10	30~70	110	90	12
			10	323.6	340	16	20	10	30~65	100	81	14	30~70	110	90	15
			12	386.4	405	16	20	14	30~75	110	91	20	30~75	120	100	22
	F	6	200.0	205	12	20	3	25~60	90	72	6	30~60	100	80	7	
		8	261.3	273	12	20	5	30~65	100	77	9	30~70	110	90	11	
		10	323.6	340	12	20	8	30~65	100	77	12	30~70	110	90	13	
		12	386.4	405	12	20	11	30~75	110	87	17	30~75	120	100	19	
		6	200.0	212	16	20	4.5	25~60	90	76	7.5	30~60	100	80	8.5	
		7½	254.9	257	16	20	6	30~65	100	81	10	30~70	110	90	11	
	S	8	261.3	273	16	20	7	30~65	100	81	11	30~70	110	90	13	
		10	323.6	337	16	20	11	30~65	100	81	15	30~70	110	90	16	
		12	386.4	400	16	20	15	30~75	110	91	21	30~75	120	100	23	
12½		402.1	416	16	20	16	30~75	110	91	22	30~75	120	100	24		

(Unit: mm)



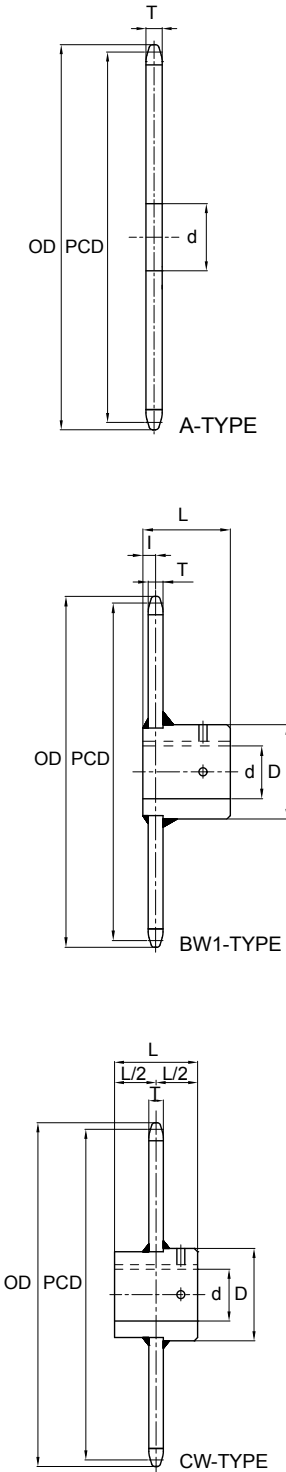
(Unit: mm)

BANDO Chain No.	ROLLER	No. OF TEETH	GENERAL			A TYPE		BW TYPE				CW TYPE			
			P.C.D	O.D	T	INNER DIA. d	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	WEIG HT (kg)
BD05150	R	6	300.0	304	16	20	8.5	30~65	100	81	12	30~70	110	90	14
		8	392.0	402	16	20	15	30~75	110	91	20	35~75	120	100	22
		10	485.4	500	16	20	23	35~80	120	96	30	35~80	130	105	32
		12	579.6	596	16	20	33	35~85	130	101	41	40~90	140	115	44
	F	6	300.0	304	12	20	6.5	30~65	100	77	11	30~70	110	90	12
		8	392.0	402	12	20	11	30~75	110	87	17	35~75	120	100	19
		10	485.4	500	12	20	17	35~80	120	92	24	35~80	130	105	27
		12	579.6	596	12	20	25	35~85	130	97	33	40~90	140	115	37
	S	6	300.0	310	16	20	9	30~65	100	81	13	30~70	110	90	14
		7½	368.8	369	16	20	14	30~75	110	91	19	35~75	120	100	21
		8	392.0	405	16	20	15	30~75	110	91	21	35~75	120	100	23
		10	485.4	499	16	20	24	35~80	120	96	31	35~80	130	105	33
BD204	S	12	579.6	592	16	20	34	35~85	130	101	42	40~90	140	115	45
		12½	603.2	616	16	20	36	35~85	130	101	44	40~90	140	115	47
		8	173.2	187	19	20	3.5	25~60	90	79	6.5	30~60	100	80	7
		10	214.5	228	19	20	5.5	30~65	100	84	9.5	30~70	110	90	11
	R	12	256.0	269	19	20	7.5	30~65	100	84	12	30~70	110	90	13
		6	203.2	217	19	20	4.0	25~60	90	79	7	30~70	100	80	7.5
		8	265.5	286	19	20	7.5	30~65	100	84	12	30~70	110	90	13
		10	328.8	354	19	20	12	30~75	110	94	18	35~75	120	100	19
	F	12	392.6	419	19	20	17	30~75	110	94	22	35~75	120	100	24
		6	203.2	217	16	20	3.5	25~60	90	76	6.5	30~60	100	80	7
		8	265.5	286	16	20	6.5	30~65	100	81	11	30~70	110	90	12
		10	328.8	354	16	20	10	30~75	110	91	16	35~75	120	100	17
BD450	S	12	392.6	419	16	20	15	30~75	110	91	20	35~75	120	100	22
		6	203.2	217	19	20	5.0	25~60	90	79	8	30~60	100	80	8.5
		7½	249.8	263	19	20	6.5	30~65	100	84	11	30~70	110	90	12
		8	265.5	279	19	20	8.5	30~65	100	84	13	30~70	110	90	14
	R	10	328.8	342	19	20	13	30~75	110	94	19	35~75	120	100	20
		12	392.6	406	19	20	19	30~75	110	94	24	35~75	120	100	26
		12½	408.5	422	19	20	19	30~75	110	94	24	35~75	120	100	26
		6	300.0	311	19	20	10	30~75	110	94	15	35~75	120	100	17
	F	8	392.0	410	19	20	18	30~75	110	94	23	35~75	120	100	24
		10	485.4	507	19	20	27	35~80	120	99	34	35~80	130	105	36
		12	579.6	604	19	20	39	35~85	130	104	48	40~90	140	115	50
BD08150	S	6	300.0	311	16	20	8	30~75	110	91	14	35~75	120	100	16
		8	392.0	410	16	20	15	30~75	110	91	20	35~75	120	100	22
		10	485.4	507	16	20	23	35~80	120	96	30	35~80	130	105	32
		12	579.6	604	16	20	33	35~85	130	101	42	40~90	140	115	44
	R	6	300.0	313	19	20	11	30~75	110	94	16	35~75	120	100	18
		7½	368.8	378	19	20	16	30~75	110	94	22	35~75	120	100	23
		8	392.0	403	19	20	19	30~75	110	94	24	35~75	120	100	25
		10	485.4	499	19	20	28	35~80	120	99	35	35~80	130	105	37
	S	12	579.6	593	19	20	40	35~85	130	104	49	40~90	140	115	51
		12½	603.2	617	19	20	43	35~85	130	104	52	40~90	140	115	54
		6	304.8	321	22	20	12	30~75	110	97	18	35~75	120	100	19
BD650	R	8	398.2	422	22	20	21	30~75	110	97	27	35~75	120	100	28
		10	493.2	521	22	20	32	35~80	120	102	39	35~80	130	105	40
		12	588.8	618	22	20	46	35~85	130	107	55	40~90	140	115	57
		6	304.8	321	16	20	9	30~75	110	91	14	35~75	120	100	16
	F	8	398.2	422	16	20	15	30~75	110	91	21	35~75	120	100	23
		10	493.2	521	16	20	24	35~80	120	96	31	35~80	130	105	32
		12	588.8	618	16	20	34	35~85	130	101	43	40~90	140	115	45
		6	304.8	320	22	20	13	30~75	110	97	19	35~75	120	100	20
	S	7½	374.7	390	22	20	19	30~75	110	97	24	35~75	120	100	25
		8	398.2	414	22	20	22	30~75	110	97	28	35~75	120	100	29
		10	493.2	509	22	20	34	35~80	120	102	41	35~80	130	105	42
		12	588.8	604	22	20	48	35~85	130	107	57	40~90	140	115	59
		12½	612.8	628	22	20	50	35~85	130	107	59	40~90	140	115	61



BANDO Chain No.	ROLLER	No. OF TEETH	GENERAL			A TYPE		BW1-TYPE				CW TYPE			
			P.C.D	O.D	T	INNER DIA. d	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	WEIG HT (kg)
BD10100	R	6	200.0	214	22	20	4.5	30~75	110	97	10	35~75	120	100	11
		8	261.3	282	22	20	8.5	30~75	110	97	14	35~75	120	100	15
		10	323.6	349	22	20	13	35~80	120	102	20	35~80	130	105	21
		12	386.4	414	22	20	19	35~85	130	107	27	40~90	140	115	29
	S	6	200.0	217	22	20	5.5	30~75	110	97	11	35~75	120	100	12
		8	261.3	279	22	20	9.5	30~75	110	97	15	35~75	120	100	16
		10	323.6	341	22	20	15	35~80	120	102	22	35~80	130	105	23
		12	386.4	404	22	20	21	35~85	130	107	29	40~90	140	115	31
BD10150	R	6	300.0	309	22	20	11	35~80	120	102	18	35~80	130	105	20
		8	392.0	408	22	20	21	35~85	130	107	29	40~90	140	115	31
		10	485.4	506	22	20	32	40~95	140	117	42	40~100	150	125	45
		12	579.6	601	22	20	45	40~100	150	122	59	40~100	150	125	59
	F	6	300.0	309	16	20	8	35~80	120	96	15	35~80	130	105	17
		8	392.0	408	16	20	15	35~85	130	101	24	40~90	140	115	26
		10	485.4	506	16	20	23	40~95	140	111	34	40~110	150	125	37
		12	579.6	601	16	20	33	40~100	150	116	46	40~100	150	125	47
	S	6	300.0	316	22	20	12	35~80	120	102	19	35~80	130	105	21
		7½	368.8	378	22	20	18	35~85	130	107	26	40~90	140	115	28
		8	392.0	409	22	20	22	35~85	130	107	30	40~90	140	115	32
		10	485.4	503	22	20	33	40~95	140	117	43	40~100	150	125	46
		12	579.6	597	22	20	46	40~100	150	122	60	40~100	150	125	60
		12½	603.2	621	22	20	48	40~100	150	122	62	40~100	150	125	62
BD214	R	6	203.2	230	25	20	6	30~75	110	100	12	35~75	120	100	12
		8	265.5	292	25	20	10	35~80	120	105	17	35~80	130	105	18
		10	328.8	356	25	20	16	35~85	130	110	25	40~90	140	115	26
		12	392.6	419	25	20	23	40~95	140	120	34	40~100	150	125	36
	S	6	203.2	222	25	20	7	30~75	110	100	13	35~75	120	100	13
		8	265.5	285	25	20	11	35~80	120	105	18	35~80	130	105	19
		10	328.8	348	25	20	17	35~85	130	110	26	40~90	140	115	27
		12	392.6	412	25	20	24	40~95	140	120	35	40~100	150	125	37
BD205	S	8	204.1	223	28	20	7	30~75	110	103	12	35~75	120	100	13
		10	252.8	272	28	20	11	35~80	120	108	17	35~80	130	105	18
		12	301.8	321	28	20	15	35~85	130	113	24	40~90	140	115	25

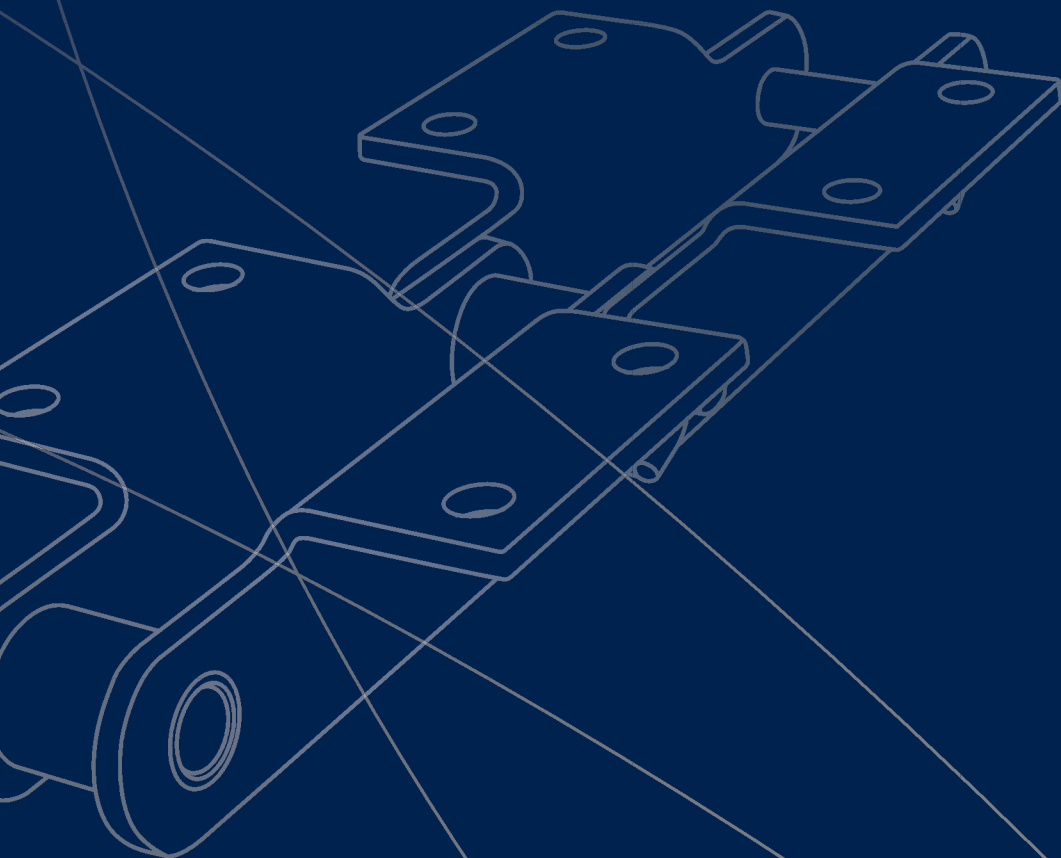
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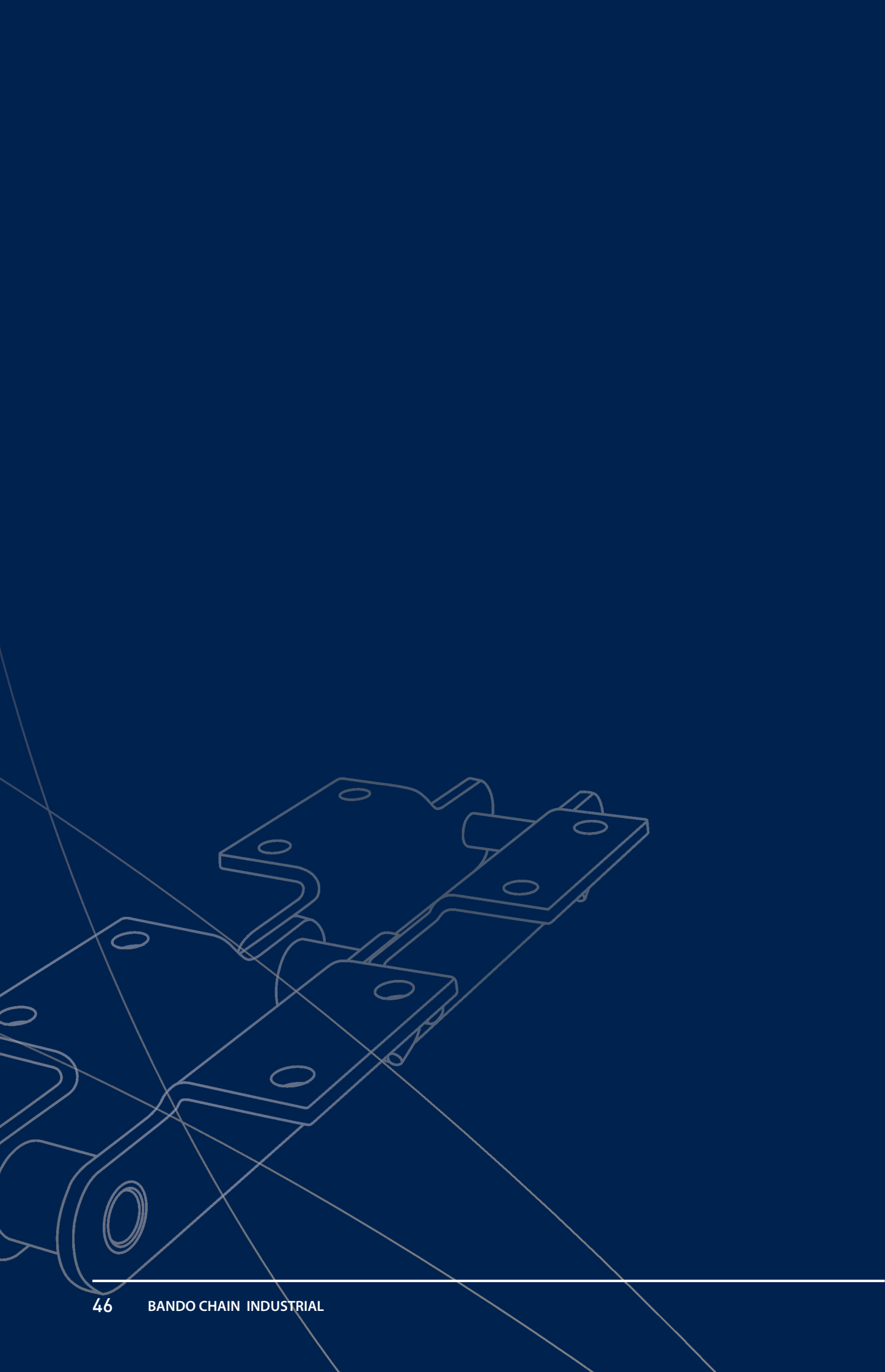


BANDO Chain No.	ROLLER	No. OF TEETH	GENERAL			A TYPE		BW1-TYPE					CW TYPE			
			P.C.D	O.D	T	INNER DIA. d	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	I	WEIG HT (kg)	SHAFT DIA. RANGE d	D	L	WEIG HT (kg)
BD12200	R	6	400.0	418	28	20	27	40~100	150	125	25	39	40~100	150	125	39
		8	522.6	551	28	20	46	45~110	160	135	25	61	45~110	160	135	60
		10	647.2	682	28	20	71	50~120	180	150	25	94	50~120	180	150	93
		12	772.7	810	28	20	101	50~130	190	160	25	129	50~130	190	160	128
	F	6	400.0	418	19	20	18	40~100	150	125	20	32	40~100	150	125	31
		8	522.6	551	19	20	31	45~110	160	135	20	48	45~110	160	135	48
		10	647.2	682	19	20	48	50~120	180	150	20	73	50~120	180	150	72
		12	772.7	810	19	20	69	50~130	190	160	20	99	50~130	190	160	98
	S	6	400.0	421	28	20	29	40~100	150	125	25	41	40~100	150	125	41
		7½	491.7	510	28	20	40	45~110	160	135	25	56	45~110	160	135	55
		8	522.6	544	28	20	49	45~110	160	135	25	64	45~110	160	135	63
		10	647.2	668	28	20	74	50~120	180	150	25	97	50~120	180	150	96
BD12250	R	12	772.7	794	28	20	105	50~130	190	160	25	133	50~130	190	160	132
		12½	804.2	825	28	20	109	50~130	190	160	25	137	50~130	190	160	136
		6	500.0	515	28	20	41	45~110	160	135	25	56	45~110	160	135	55
		8	653.3	680	28	20	72	50~120	180	150	25	95	50~120	180	150	94
	F	10	809.0	841	28	20	113	50~113	190	160	25	141	50~130	190	160	140
		12	965.9	1002	28	20	159	55~145	210	180	25	198	55~145	210	180	197
		6	500.0	515	19	20	28	45~110	160	135	20	45	45~110	160	135	44
		8	653.3	680	19	20	49	50~120	180	150	20	73	50~120	180	150	72
	S	10	809.0	841	19	20	76	50~130	190	160	20	106	50~130	190	160	105
		12	965.9	1002	19	20	108	55~145	210	180	20	149	55~145	210	180	148
		6	500.0	521	28	20	43	45~110	160	135	25	59	45~110	160	135	58
		7½	614.6	623	28	20	65	50~120	180	150	25	88	50~120	180	150	87
BD212	R	8	653.3	674	28	20	75	50~120	180	150	25	98	50~120	180	150	97
		10	809.0	830	28	20	115	50~130	190	160	25	143	50~130	190	160	142
		12	965.9	987	28	20	163	55~145	210	180	25	202	55~145	210	180	201
		12½	1005.3	1026	28	20	175	55~145	210	180	25	214	55~145	210	180	213
	S	6	304.8	339	28	20	15	40~100	150	125	25	27	40~100	150	125	27
		8	398.2	440	28	20	26	45~110	160	135	25	42	45~110	160	135	41
		10	493.2	535	28	20	41	50~120	180	150	25	63	50~120	180	150	62
		12	588.8	631	28	20	59	50~130	190	160	25	87	50~130	190	160	86
	F	6	304.8	329	28	20	17	40~100	150	125	25	29	40~100	150	125	29
		8	398.2	422	28	20	29	45~110	160	135	25	44	45~110	160	135	44
		10	493.2	517	28	20	44	50~120	180	150	25	66	50~120	180	150	65
		12	588.8	613	28	20	61	50~130	190	160	25	89	50~130	190	160	88
BD17200	R	6	400.0	426	40	20	38	40~110	160	135	32	51	45~110	160	135	50
		8	522.6	562	40	20	66	50~120	180	150	32	86	50~120	180	150	85
		10	647.2	691	40	20	101	50~130	190	160	32	126	50~130	190	160	125
		12	772.7	821	40	20	144	55~145	210	180	32	179	55~145	210	180	178
	F	6	400.0	426	28	20	27	45~110	160	135	25	42	45~110	160	135	42
		8	522.6	562	28	20	46	50~120	180	150	25	68	50~120	180	150	67
		10	647.2	691	28	20	71	50~130	190	160	25	98	50~130	190	160	97
		12	772.7	821	28	20	101	55~145	210	180	25	140	55~145	210	180	139
	S	6	400.0	424	40	20	41	45~110	160	135	32	55	45~110	160	135	54
		7½	491.7	516	40	20	57	50~120	180	150	32	77	50~120	180	150	76
		8	522.6	547	40	20	70	50~120	180	150	32	90	50~120	180	150	89
		10	647.2	671	40	20	106	50~130	190	160	32	131	50~130	190	160	130
BD17250	R	12	772.7	797	40	20	150	55~145	210	180	32	185	55~145	210	180	184
		12½	804.2	828	40	20	152	55~145	210	180	32	187	55~145	210	180	186
		6	500.0	522	40	20	59	50~120	180	150	32	79	50~120	180	150	78
		8	653.3	689	40	20	103	50~130	190	160	32	128	50~130	190	160	127
	F	10	809.0	850	40	20	158	55~145	210	180	32	193	55~145	210	180	192
		12	965.9	1012	40	20	227	55~145	210	180	32	262	55~145	210	180	261
		6	500.0	522	28	20	42	50~120	180	150	25	64	50~120	180	150	63
		8	653.3	689	28	20	72	50~130	190	160	25	100	50~130	190	160	99
	S	10	809.0	850	28	20	111	55~145	210	180	25	150	55~145	210	180	149
		12	965.9	1012	28	20	159	55~145	210	180	25	198	55~145	210	180	197
		6	500.0	524	40	20	63	50~120	180	150	32	83	50~120	180	150	82
		7½	614.6	637	40	20	93	50~130	190	160	32	118	50~130	190	160	117
BD17250	R	8	653.3	677	40	20	108	50~130	190	160	32	133	50~130	190	160	132
		10	809.0	833	40	20	164	55~145	210	180	32	199	55~145	210	180	198
		12	965.9	990	40	20	233	55~145	210	180	32	268	55~145	210	180	267
		12½	1005.3	1029	40	20	250	55~145	210	180	32	285	55~145	210	180	284

LARGE SIZE CONVEYOR CHAIN

- Flow Conveyor chain
- BNF type Block chain
- Bucket Conveyor chain
- Slat Conveyor chain
- Apron Conveyor chain
- BRO type heavy duty roller chain

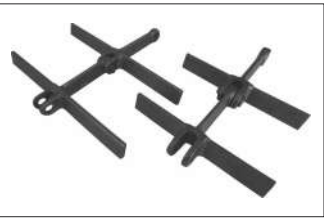




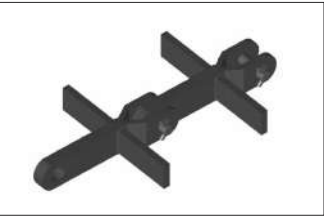
FLOW CONVEYOR CHAIN



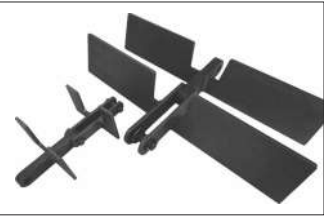
Flow conveyor chain 48



BEF type flow conveyor chain 52
App.) EF TYPE

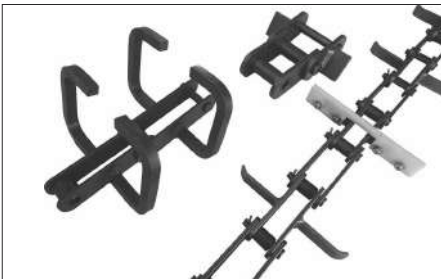


BEO type flow conveyor chain 54
App.) EO TYPE

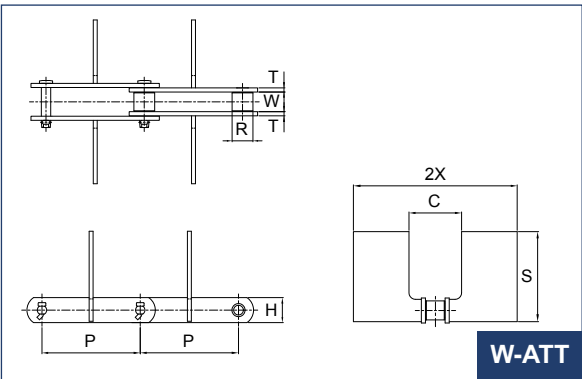
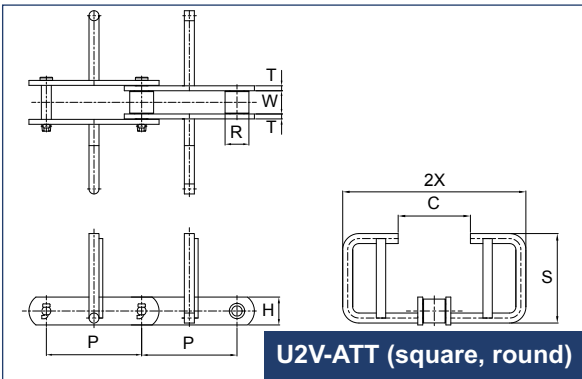
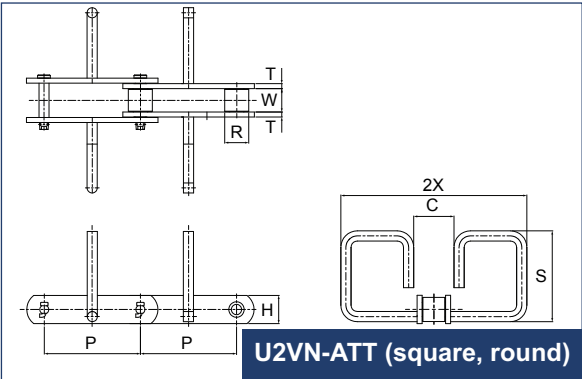
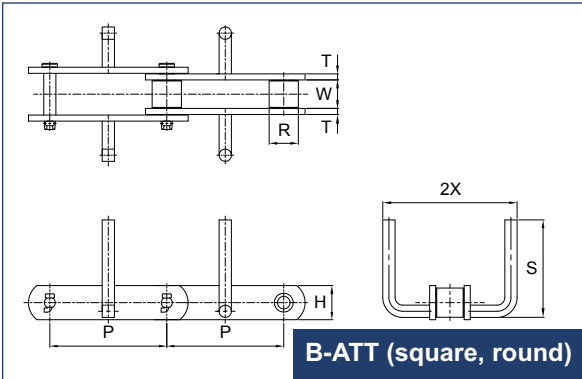
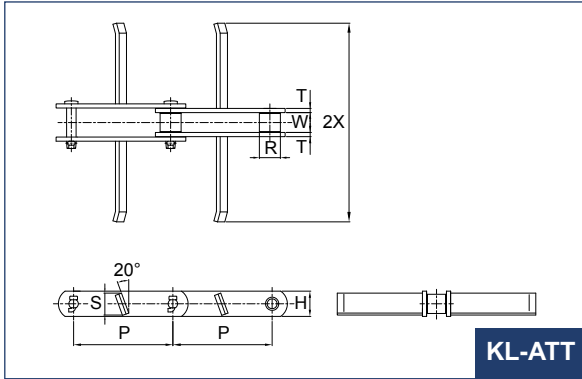
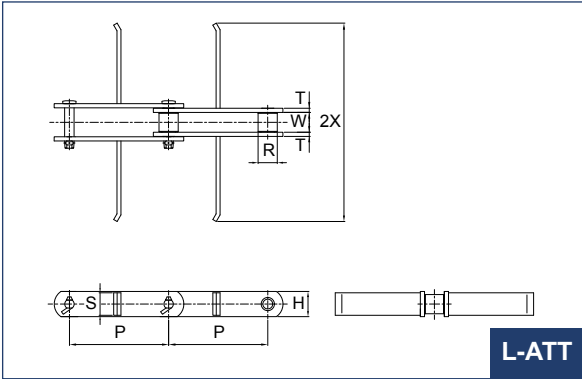


BNF type flow conveyor chain 55
App.) NF TYPE

FLOW CONVEYOR CHAIN



Uses an enclosed casing to retain powdery materials (lime, cement, etc.) and to reduce pollution. Various attachments are available to suit whichever environment or need, and attachments are welded directly to the link plates.



(Unit: mm)

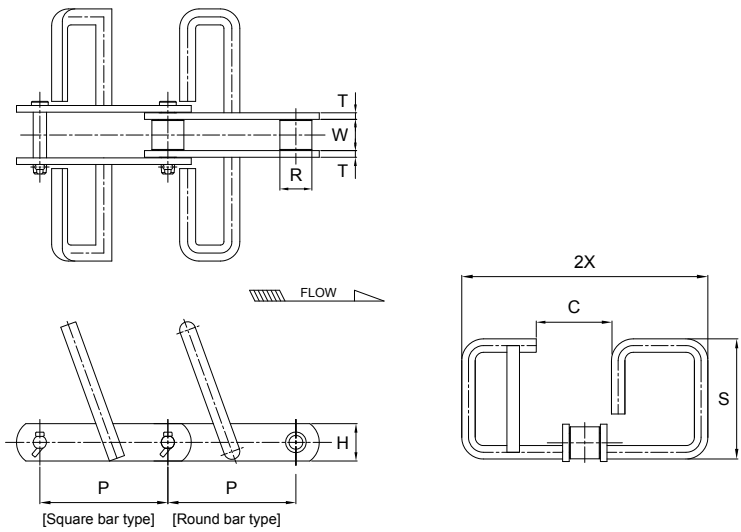
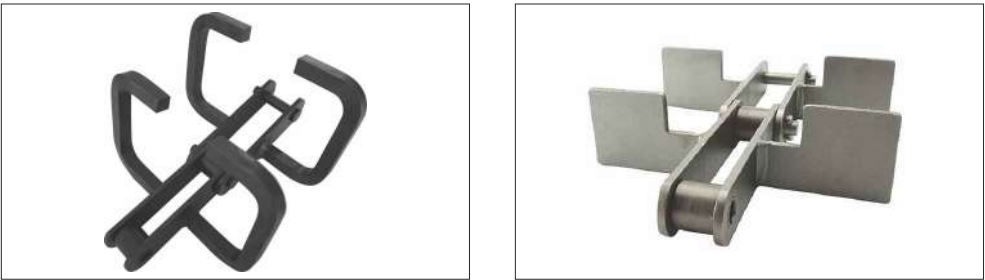
BANDO Chain No.	CON-VEYOR	PITCH P	ROLLER(M,N) DIA.	INNER WIDTH W	LINK PLATE		AVG. BREAKING STRENGTH(kgf)	
					HEIGHT H	THICKNESS T	CORBON	ALLOY
BD450M	FC150	101.6	25.4	27	31.8	6.3	11,000	14,500
BD08125M	FC200	125	25.4	27	31.8	6.3	11,000	14,500
BD10125M	FC200	125	31.75	30	38.1	6.3	11,500	23,000
BD10150M		150						
BD6205M	FC270	152.4	38.1	37.1	44.5	7.9	19,000	28,500
BD12200M	FC350	200	38.1	37.1	44.5	7.9	19,000	28,500
BD17200M	FC350	200	44.5	51.4	50.8	9.5	25,000	39,500
BD17250M		250						
BD26200M	FC410	200	50.8	57.2	63.5	9.5	32,000	53,000
BD26250M	FC450	250						
BD26300M	FC580	300						
BD36300M(N)	FC580	300	57.2	66.7	76.2	12.7	48,500	69,500(88,500)

(Unit: mm)

BANDO Chain No.	2X	L Att.		KL Att.		B Att.		U2V Att.			W Att.		
		HEIGHT S	WEIGHT (kg/m)	HEIGHT S	WEIGHT (kg/m)	HEIGHT S	WEIGHT (kg/m)	HEIGHT S	C	WEIGHT (kg/m)	HEIGHT S	C	WEIGHT (kg/m)
BD450M	135	28	6.5	28	6.5	55	7.4	80	60	9.1	80	60	8.1
BD08125M	185	28	6.5	28	6.5	80	8.2	115	85	10.1	115	85	10.3
BD10125M	185	34	8.1	34	8.1	80	8.9	115	85	10.9	115	85	11.3
BD10150M	250					100	9.8	140	105	12.0	140	105	13.0
BD6205M	250	40	12	40	12	100	14.4	140	105	18.5	140	105	17.2
BD12200M	330	40	12	40	12	125	16.3	185	130	20.0	185	130	22.6
BD17200M	330	46	17	46	17	125	18.7	185	130	23.0	185	130	26.3
BD17250M	430					160	19.3	230	135	23.7	230	135	31.5
BD26200M	390	58	28	58	28	150	25	233	100	33.4	233	100	41.7
BD26250M	430		23		23	160	25	230	135	29.0	230	135	35.7
BD26300M	560		23		23	200	27	290	160	30.6	290	160	53.0
BD36300M(N)	560	70	34	70	34	200	37	290	160	40.0	290	160	61.3

ATT type	APPLICATIONS
L	For grains such as wheat and powdery substances such as dry cement
KL	For sticky materials
B Round	To carry flour, dry cement, and other powdery substances more efficiently than when using the L attachment
B Square	For lumpy, granular, or sticky substances that are difficult to carry with the B Round
U2V Round & U2VN Round	For larger conveyors than those used in conjunction with the L, KL, and/or B, or for inclined elevation
U2V Square & U2VN Square	For lumpy, granular, or sticky materials that are difficult to carry using U2V(U2VN)round
W	For powdery substances that easily blown away

INCLINED FLOW CONVEYOR CHAIN

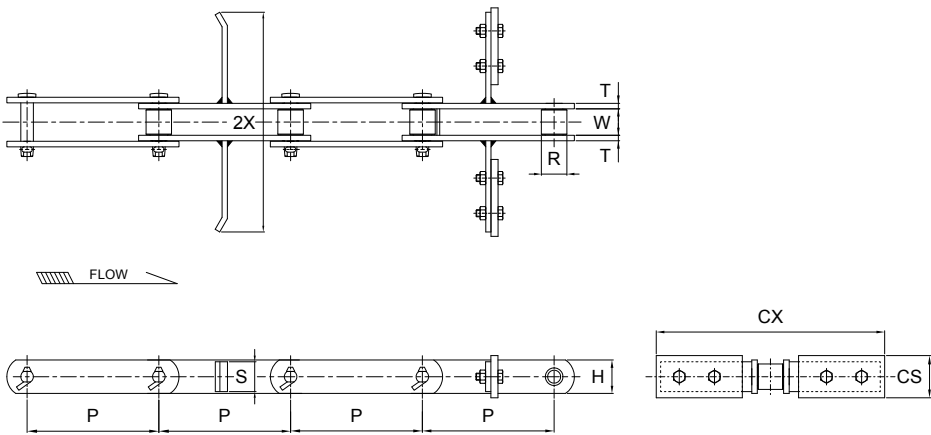


Chain for incline

(Unit: mm)

BANDO Chain No.	CON-VEYOR		PITCH P	ROLLER (M,N) DIA. R	INNER WIDTH W	LINK PLATE		2X	U ATTACHMENT			U2 (U2N) ATTACHMENT			AVG. BREAKING STRENGTH(kgF)		
						HEIGHT H	THICK-NESS T		HEIGHT S	C	WEIGHT (kg/m)	HEIGHT S	C	WEIGHT (kg/m)	COR-BON	ALLOY	
BD450M	FL	160	101.6	25.4	27	31.8	6.3	145	110	50	10.1	110	50	10.9	11,000	14,500	
	FS																
BD10125M	FL	240	125	31.75	30	38.1	6.3	225	140	65	14.3	140	65	15.7	11,500	23,000	
	FS																
BD6205M	FL	320	152.4	38.1	37.1	44.5	7.9	300	175	80	20.1	175	80	21.7	19,000	28,500	
	FS																
BD17200M	FL	410	200	44.5	51.4	50.8	9.5	390	220	100	27.9	220	100	30.3	25,000	39,500	
	FS																
BD26200M	FL	410	200	50.8	57.2	63.5	9.5	390	220	100	30.9	220	100	33.3	32,000	53,000	
	FS																
BD36300N	FL	500	300	57.2	66.7	76.2	12.7	480	260	120	42.5	260	120	44.8	48,500	69,500 (88,500)	
	FS																
	FL	600															
	FS																

FLOW CHAIN FOR GRAIN TRANSFER



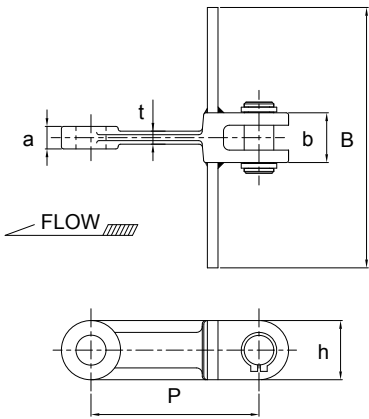
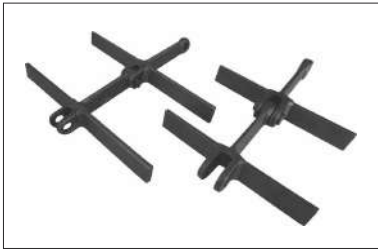
Chain for grain transfer

(Unit: mm)

BANDO Chain No.	CON-VEYOR	PITCH P	ROLLER (S, M, N) DIA. R	INNER WIDTH W	LINK PLATE		ATTACHMENT		Cleaner		AVG. WEIGHT (kg/m)	AVG. BREAKING STRENGTH(kgf)
					WIDTH H	THICKNESS T	2X	HEIGHT S	WIDTH CX	HEIGHT CS		
BD03075S	FK 110	75	15.9	16.1	22	3.2	95	20	105	28	2.1	3,000
BD430S	FK 150	101.6	20.1	22.6	25.4	4.5	135	22	145	32	3.4	5,500
BD450S	FK 150	101.6	22.2	27	28.6	6.3	135	25	145	34	5.0	8,000
BD08125S	FK 200	125	22.2	27	28.6	6.3	185	25	195	34	5.0	8,000
BD10125S	FK 200 FK 240	125	29	30	38.1	6.3	185 225	34	195 235	47	6.8 7.3	11,500
BD10150S	FK 270 FK 320	150	29	30	38.1	6.3	250 300	34	265 315	47	6.9 7.2	11,500
BD6205S	FK 270	152.4	34.9	37.1	44.5	7.9	250	40	265	53	10.5	19,000
BD12200S	FK 350	200	34.9	37.1	44.5	7.9	330	40	345	53	10.3	19,000
BD17200S	FK 350 FK 450	200	40.1	51.4	50.8	9.5	330 430	46	345 445	58	14.0 16.0	25,000
BD26200S	FK 450	200	44.5	57.2	63.5	9.5	430	58	445	68	21.0	32,000

BEF TYPE FLOW CONVEYOR CHAIN

Used with flow conveyors to transport highly abrasive, courteously granulated substances. Attachments are welded together with forged blocks.



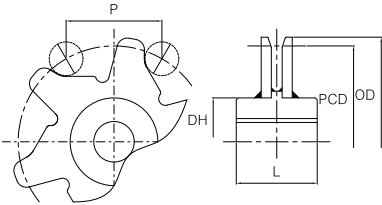
Chain and attachment dimension table

(Unit: mm)

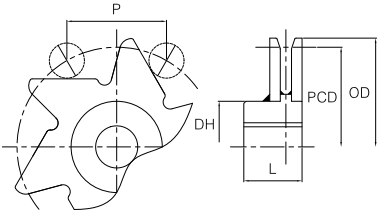
BANDO Chain No.	PITCH P	MAXIMUM ALLOWABLE LOAD(kg)	AVG. ULTIMATE STRENGTH(kgf)	LINK DIMENSIONS				ATTACHMENT DIMENSIONS B	WEIGHT (kg/m)
				a	b	h	t		
BEF05125	120	830	5,000	10	21	26	6	125	3.30
BEF05150	120	830	5,000	10	21	26	6	150	3.33
BEF05190	120	830	5,000	10	21	26	6	190	3.40
BEF10125	150	1,670	10,000	15	32	34	8	125	4.60
BEF10150	150	1,670	10,000	15	32	34	8	150	4.86
BEF10190	150	1,670	10,000	15	32	34	8	190	6.05
BEF10240	150	1,670	10,000	15	32	34	8	240	6.80
BEF10290	150	1,670	10,000	15	32	34	8	290	8.85
BEF10340	150	1,670	10,000	15	32	34	8	340	9.84
BEF20150	150	2,500	20,000	18	37	40	10	250	10.7
								330	12.3
BEF30142	142	3,340	30,000	19	42	50	11	330	18.2
								390	20.1
BEF30150	150	3,340	30,000	19	42	50	11	340	15.9
								410	21.2
BEF50142	142	6,600	50,000	26	54	54	14	330	22
BEF50200	200	6,600	50,000	26	54	54	14	480	24.6
								560	27.2
BEF363	142	8,700	60,000	29	62	50	16		
BEF40200	200	6,600	40,000	22	45	52	12	430	20.8
								480	22.4
BEF32200	200	5,000	32,000	20	42	46	12	390	16.8
								430	17.8
BEF80260	260	11,000	80,000	31	72	75	20	560	46.2

※ Attachment dimensions are changeable according to cashing size.

SPROCKET FOR BEF TYPE FLOW CONVEYOR CHAIN



DRIVE



TAIL WHEEL

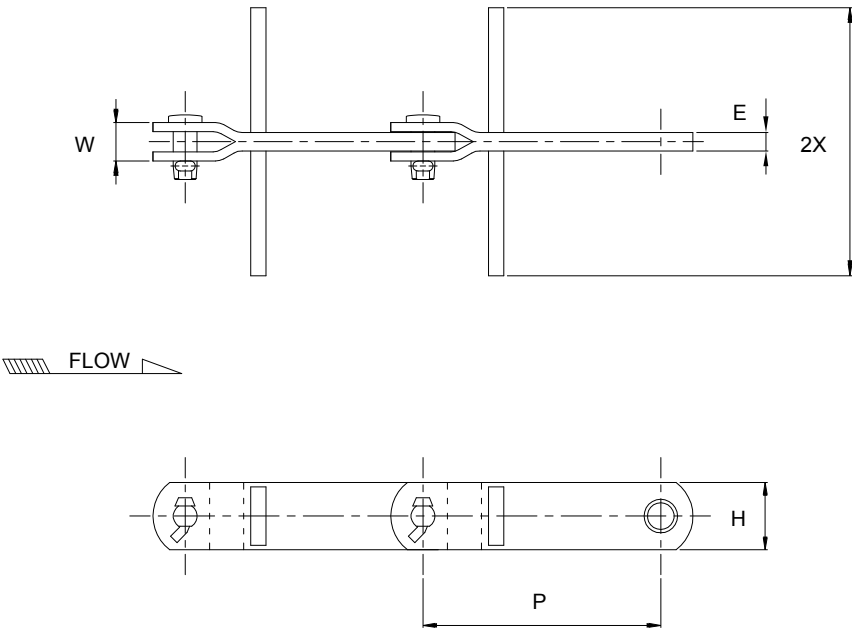
Chain and Sprocket Dimensions Table

(Unit: mm)

BANDO Chain No.	No. OF TEETH NT	PITCH P	PITCH DIA. P.C.D	OUTSIDE DIA. O.D	MAXIMUM BOSS DIA. d	HUB		APPROX. WEIGHT (kg)
						DH	L	
BEF10150	8	150	392	416	85	135	90	24.8
	9		438.6	462				28
	10		485.4	510				31.5
BEF20150	9	150	438.6	466	95	150	100	36
	10		485.4	512				40.5
	11		532.4	560				45.4
BEF30142	9	142	415.18	447	110	180	120	49
	10		459.5	491				55
	11		504.0	536				60
BEF30150	9	150	438.6	470	110	180	120	52.9
	10		585.5	516				58.2
	11		532.4	564				64.2
BEF50142	9	142	415.18	452	165	270	190	91
	10		459.5	496				106
	11		504.0	541				121
BEF50200	11	200	709.9	748	165	270	190	167
	12		772.7	810				180
	13		835.7	874				198
BEF40200	10	200	647.2	682	160	260	180	139
	11		709.9	746				151
	12		772.7	810				163
BEF32200	10	200	647.2	680	145	230	160	100
	11		709.9	742				113
	12		772.7	804				123

BEO TYPE FLOW CONVEYOR CHAIN

BEO type is made from double-ply steel sheets. Indented bushes are used to counteract the abrasive movements of the pin and link plate. Take advantage of high-strength, anti-abrasive properties. In particular, this chain is suitable to handle coarsely granulated, cumbersome materials.

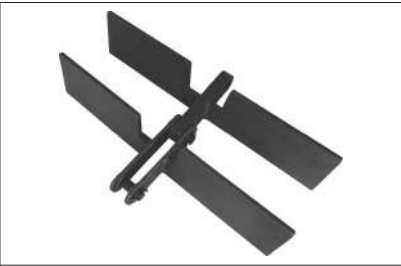


(Unit: mm)

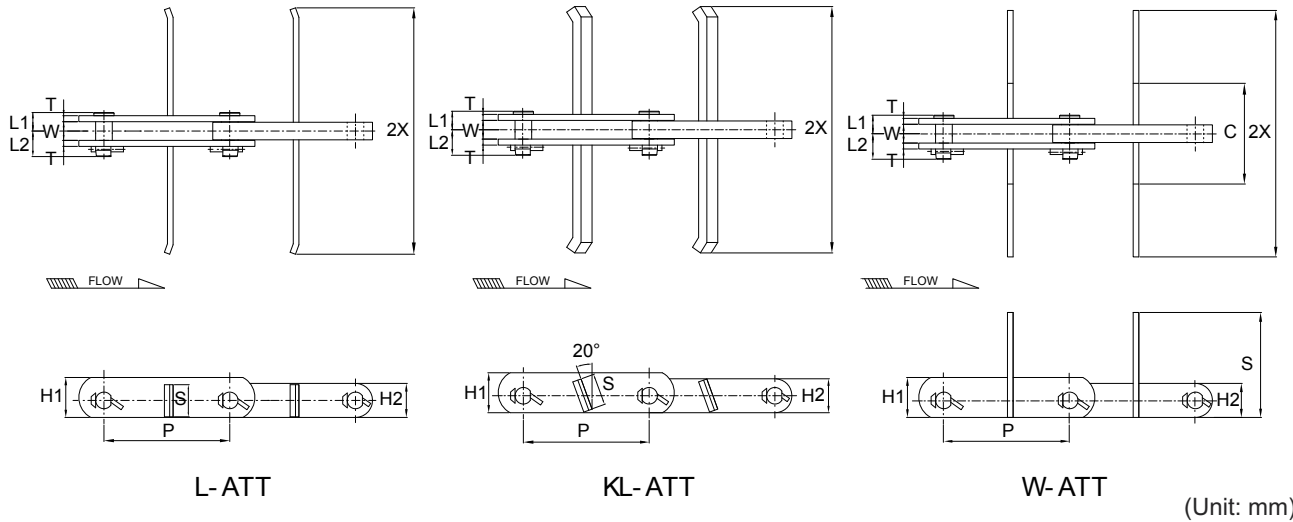
BANDO Chain No.	PITCH P	LINK			ATTACHMENT 2X	APPROX. WEIGHT (kg/m)	AVG.ULTIMATE STRENGTH (kg)
		W	E	H			
BEO10150	150	40	19	38.1	135 185	9.3 10.2	10,000(13,000)
BEO16150	150	40	19	44.5	185 250	12.1 13.4	16,000(21,000)
BEO25200	200	40	19	50.8	330 430	16.9 19.2	25,000(33,000)
BEO40200	200	53	25.4	76.2	330 480	38.3 40.7	40,000(63,000)
BEO60250	250	68	32	76.2	480 560	40.2 43.1	60,000(85,000)

- ※ 1. Indicated in parentheses are Alloy steel.
2. 2X Attachment is available depending on the size of the conveyor and the casing.

BNF TYPE FLOW CONVEYOR CHAIN



BNF type chains are suitable for transporting large totes that require abrasion resistance. Inner links are forged or stamped and outer link plates are fused together. BNF-type chains use a variety of treatments, depending on the type of material to be transported.



(Unit: mm)

BANDO Chain No.	PITCH P	PLATE		PIN		T	W	AVG. WEIGHT (kg/m)	AVG.ULTIMATE STRENGTH (kgf)
		H1	H2	L1	L2				
BNF30150 BNF30200	150 200	44.5	38.1	23.5	32	7.9	23.3	7.9 7.6	31,500
BNF56200 BNF56250	200 250	63.5	54.0	28.5	39.5	9.5	29.5	14.7 14.5	56,500

Horizontal attachment

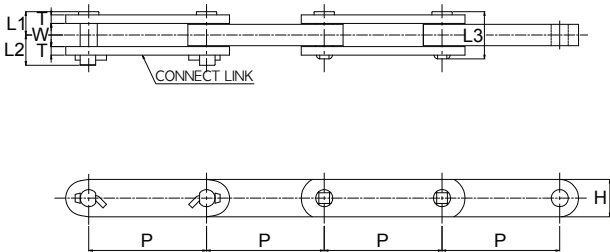
(Unit: mm)

BANDO Chain No.	CON-VEYOR	L Att.			KL Att.			W Att.		
		2X	HEIGHT S	ADDITIONAL WEIGHT (kg/pc)	2X	HEIGHT S	ADDITIONAL WEIGHT (kg/pc)	2X	HEIGHT S	INNER WIDTH C
BNF30150 BNF30200	FC150	135	34	0.18	135	34	0.18	135	80	60
	FC200	185		0.26	185		0.26	185	115	85
	FC270	250		0.36	250		0.36	250	140	105
	FC350	330		0.74	330		0.74	330	185	130
	FC450	430		0.98	430		0.98	430	230	135
BNF56200 BNF56250	FC410	390	51	1.3	390	51	1.3	390	233	100
	FC450	430		1.44	430		1.44	430	230	135
	FC580	560		1.92	560		1.92	560	290	160



BNF TYPE BLOCK CHAIN

BNF TYPE BLOCK CHAIN



Structured by connecting link plates and one or two inner links by pins. These chains possess excellent structural rigidity; toughness is greater than the chain tension weight. Since key parts feature Alloy steel, abrasion and heat resistance are both excellent. Normally used by mounting dog to chain.

Application

- 1. Used with tow-truck conveyors
- 2. Used when hot substances must be transported
- 3. Used with draw benches
- Please use piece attached type sprocket to reduce inside tensile strength.

Various types of DOGs are available.
The main types are as follows:

- ① **Fixed Dog**
Inner or outer pusher link to push material.
- ② **Tilting Dog**
Pushes the goods in front as the fixed dog does and tilts to pass the goods backward. Then the dog returns to its original position.
- ③ **Ducking Dog**
It transfers goods on a guide rail. When the guide rail stops, it ducks with the goods left behind.
- ④ **Tilting/ Ducking Dog**
Has both functions of tilting dogs and ducking dogs. It pushes good on a guide rail and tilts to pass the goods backward. When the guide rail stops, it ducks with the leftover goods.

(Unit: mm)

BANDO Chain No.	PITCH P	LINK HEIGHT H	PIN			OUTER LINK PLATE THICK-NESS T	INNER WIDTH OF OUTER LINK W	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
			L1	L2	L3				
BNF30150 BNF30200	150 200	38.1	24	32	49	7.9	23.3	7.0 6.6	31,500
BNF40150 BNF40200	150 200	44.5	25.5	35.5	52	7.9	26.5	9.0 8.5	40,500
BNF56200 BNF56250	200 250	54	29.5	40.5	60	9.5	29.5	12.3 12.0	56,500
BNF63200 BNF63250	200 250	57	30.5	41.5	62	9.5	31.5	13.7 13.0	63,000
BNF70200 BNF70250	200 250	63.5	31.5	42.5	64	9.5	33.5	16.2 15.5	73,500
BNF90200 BNF90250	200 250	72	34.5	45.5	70	10.5	38	21.0 20.0	92,500
BNF115250 BNF115300	250 300	76.2	38	49	77	12.7	40	25.0 24.0	114,000
BNF140250 BNF140300	250 300	85	44	54	88	14	47.5	32.0 31.0	143,000
BNF180300 BNF180350	300 350	95	48.5	58.5	97	16	52.5	39.0 37.8	177,500
BNF210300 BNF210350	300 350	110	51.5	61.5	103	16	59	50.0 48.8	219,500
BNF250300 BNF250350	300 350	112	58.5	68.5	118	19	66	58.8 56.7	248,500
BNF280300 BNF280350	300 350	122	58.5	68.5	118	19	67	66.0 62.3	277,500

BUCKET CONVEYOR CHAIN



Standard bucket elevator chain **59**
- Standard type
- Ply board type



High-speed type bucket elevator chain **60**



BB type bucket elevator chain **61**
- BBH type
- BBS type
- BBC type



Plant bucket conveyor chain **65**
- BD4103
- BD488
- BD710

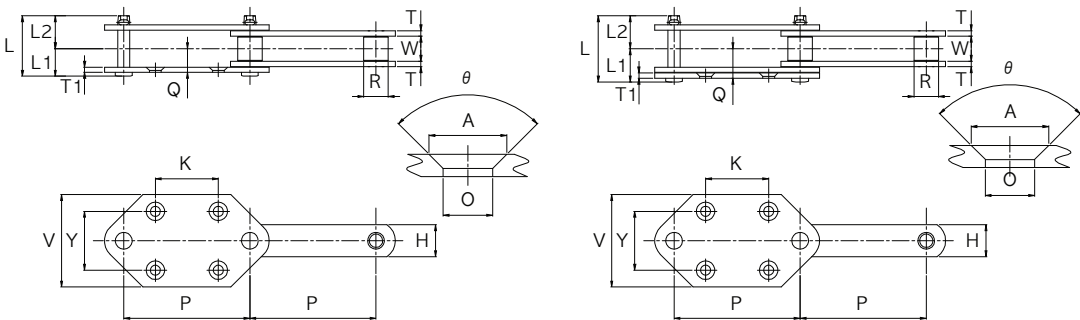


BWH type bucket conveyor chain **67**



STANDARD BUCKET ELEVATOR CHAIN

BUCKET CHAIN (B type)



G4-ATT G4-ATT(Ply board assembled) (Unit: mm)

BANDO Chain No.	PITCH P	ROLLER DIA. R	INNER WIDTH W	LINK PLATE		PIN			APPROX. WEIGHT (kg/m)	AVG.ULTIMATE STRENGTH(kgf)	
				H	T	L1 + L2	L1	L2		CARBON	ALLOY
BD10150S	150	29	30	38.1	6.3	69	33	36	5.4	11,500	23,000
BD12006S	152.4	34.9	37.1	44.5	7.9	83.5	40.5	43	8.6	19,000	28,500
BD12200S	200								7.8		
BD17200S	200	40.1	51.4	50.8	9.5	109.5	51.5	58	11.6	25,000	39,500
BD17250S	250								10.7		
BD26200N	200	50.8	57.2	63.5	9.5	117	56	61	16.2	32,000	53,000
BD26250N	250					129.5	68.5		14.7		
BD26300N	300					147	69	78	13.9		
BD36250N	250	57.2	66.7	76.2	12.7	159	81		23.7	48,500	88,500
BD36300N	300					172	88	84	22.1		
BD36350N	350								20.6		
BD60300N	300	70	77	90	12.7	197	101.5	95.5	29.7	62,000	106,000
BD60350N	350								27.8		
BD60400N	400								26.4		
BD90350N	350	85	88	110	16	197	101.5	95.5	45.9	95,000	166,000
BD90400N	400								43.4		
BD120400N	400	110	100	130	19	227.5	119.5	108	63.5	113,000	225,000

G4 Attachment

(Unit: mm)

BANDO Chain No.	P	V	K	Y	T	Q	A	O	θ	BOLT	APPROX. WEIGHT EVERY 2l (kg/m)
BD10150S	150	110	75	70	6.3	28.5	26	15	90°	M12	7.0
BD12006S	152.4	110	75	70	7.9	35.5	26	15	90°	M12 M14	10.5
BD12200S	200	120	100	80							9.9
BD17200S	200	120	100	80	9.5	45.5	26	15	90°	M14 M16	13.9
BD17250S	250	150	140	100							14.0
BD26200N	200	120	100	80	9.5	48	26	15	90°	M14 M16	18.3
BD26250N	250	150	140	100							17.8
BD36250N	250	150	140	100	12.7	60	32	19	90°	M16	27.5

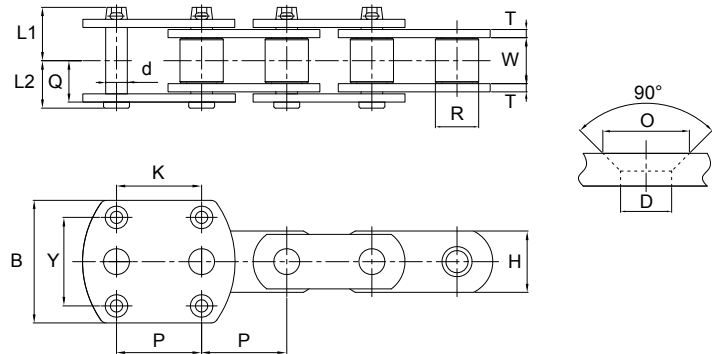
G4 Attachment (Ply board)

(Unit: mm)

BANDO Chain No.	P	V	K	Y	T	Q	A	O	θ	BOLT	APPROX. WEIGHT EVERY 2l (kg/m)
B26300N	300	200	170	140	12	60	38	24	90°	M20	22.5
B36300N	300	200	170	140	12	72	38	24	90°	M20	31.4
B36350N	350	240	200	170	12	72	40	28	60°	M24	31.2
B60300N	300	200	170	140	12	77	38	24	90°	M20	39.5
B60350N	350	240	200	170	12	77	40	28	60°	M24	38.8
B60400N	400	280	230	200	16	81	50	35	60°	M30	42.8
B90350N	350	240	200	170	12	89.5	40	28	60°	M24	57.8
B90400N	400	280	230	200	16	93.5	50	35	60°	M30	60.8
B120400N	400	280	230	200	16	105.5	50	35	60°	M30	82.2

HIGH SPEED BUCKET ELEVATOR CHAIN

Impact resistance, abrasion resistance, and fatigue resistance are all exceptional with our high-speed bucket elevator chains, which are used mainly in the transport of powders and finely granulated substances.



(Unit: mm)

BANDO Chain No.	AVG. ULTIMATE STRENGTH (kgf)	PITCH P	INNER WIDTH W	ROLLER DIA. R	PIN			LINK PLATE		ATTACHMENT						BOLT	APPROX. WEIGHT (kg/m)		
					d	L1	L2	T	H	K	Y	B	D	O	Q		A	B	
BK23100M	23,000	100	51.8	44.5	19.05	59.8	51.7	9	50	100	105	150	18	33	45.5	M16	17.5	20.4	
BK32100M	32,000	100	57.6	50.8	22.2	62.8	55.7	9	65	100	105	150	18	33	48.5	M16	24.7	27.3	
BK35Z100M	33,000	100	51.8	44.5	22.2	60.2	53.8	9	57	100	105	150	18	33	45.5	M16	19.0	21.7	
BK50Z100M	50,000	100	57.6	50.8	25.4	64.2	57.3	9	75	100	105	150	18	33	48.5	M16	26.2	28.6	
BK50Z125M		125								125	130	180					23.0	26.1	
BK75Z125M	95,000	125	67.4	63.5	31.75	78.0	70.0	12.7	90	125	130	180	18	33	60	M16	41.9	46.1	
BK75Z150M		150								150	170	220					37.6	42.7	
BK75Z175M		175								175	180	230					34.5	39.7	
BK100Z125M	100,000	125	75	70	35	90.8	83.2	16	100	125	130	180	18	33	72	M16	63.3	68.1	
BK100Z150M		150								150	170	230	22	39			56.7	63.9	
BK100Z175M		175								175	180	240					52.0	59.3	
BK120Z125M	120,000	125	82.5	75	38.5	95.5	88.0	16	115	125	150	200	18	33	76	M16	74.6	79.8	
BK120Z150M		150								150	170	230	22	39			68.3	75.1	
BK120Z175M		175								175	180	240					62.5	69.4	
BK140Z150M	140,000	150	85	82	41.75	99.3	90.2	16	125	150	170	230	22	39	77	M20	81,3	87.8	
BK140Z175M		175								175	180	250	26	42.2			M24	74.0	81.1
BK160Z175M	160,000	175	92.5	86	44.5	110.3	101.2	19	130	175	180	250	26	42.2	87	M24	91.6	99.9	
BK200Z175M	200,000	175	95	97	50.8	114.0	103.5	19	150	175	195	260	26	42.2	88.5	M24	119.3	134.2	

※ 1. "A" - The average weight without attachment.
2. "B" - The average weight with attachment.

BB TYPE HIGH SPEED BUCKET ELEVATOR CHAIN

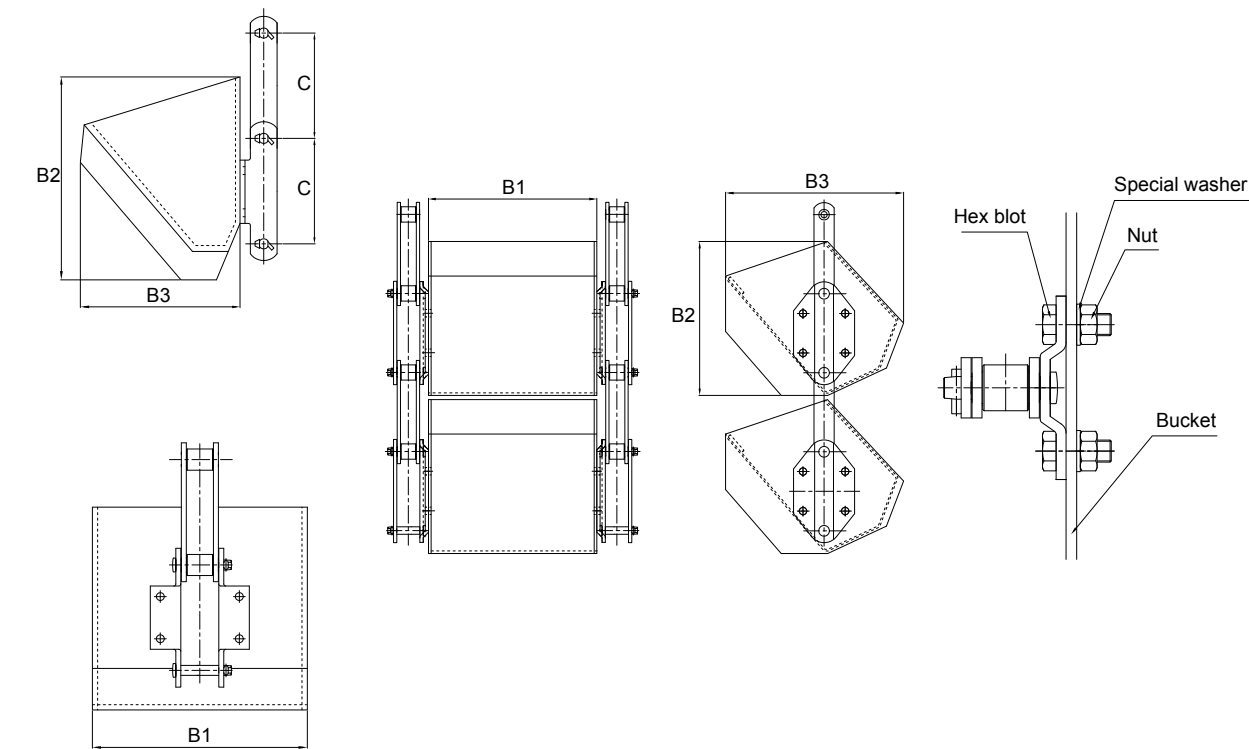
High-speed buckets are mainly used to transport granulated and powdered substances. Anti-abrasion and impact-resistance are excellent as well as transport capacity per hour.

ITEMS

- BBC type : Used to transport large, granulated substances.
(ex: limestone, clinker)
- BBH type : Used to transport powders and granulated substances with high-speed buckets.
(ex: cement, soda powder)
- BBS-Type : Used to transport standard powders and granulated substances.
(ex: cement, dust)

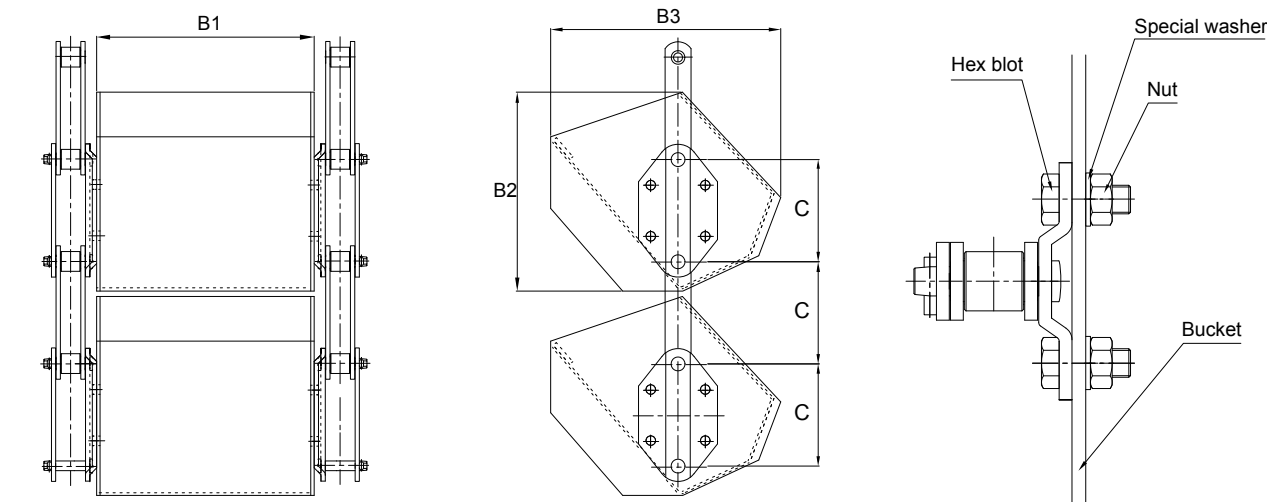
FEATURES

- **Realization of the high speed**
Standard transport speed is 45m/min. BBH-Type chain can go twice as fast.
- **Improvement of capacity**
Smaller pitch significantly reduce the shock and noise by high speed and using our own special material and heat treatment focused on the less fatigue and wear. Also, we highly protect the buckets apply lighter attachment (A-1)
- **Free distance piece**
Conventional bucket elevator buckets are attached using a distance piece, but BBH type have flat-head bolts and hex bolts attached directly, creating a simpler, robust design.
- **Improvement of Bucket and increase load capacity**
Improving and increasing the transport capacity of each bucket by maximizing efficiency is realized by designing the most efficient shape of the bucket.



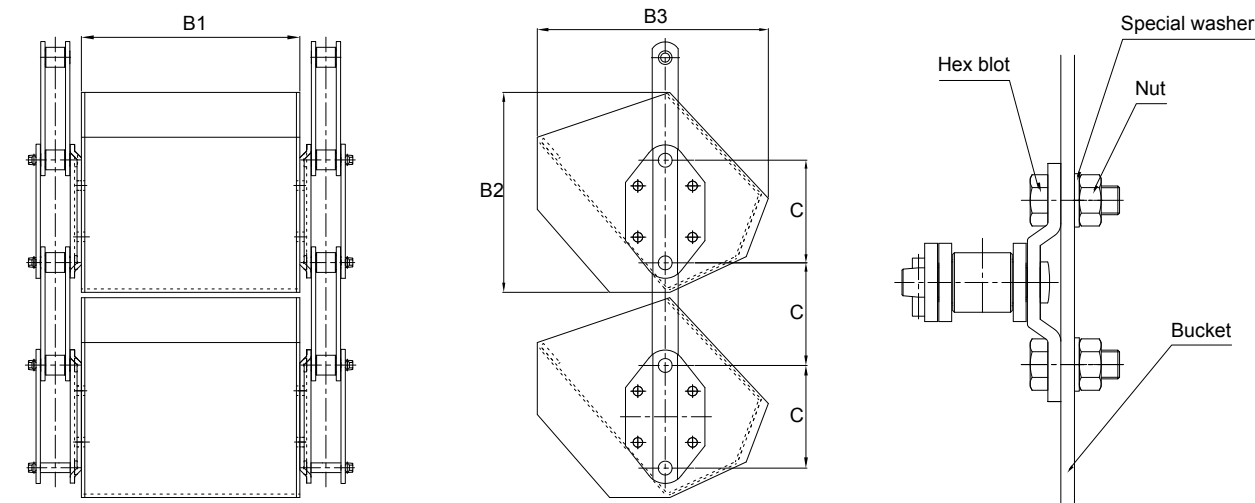
(Unit: mm)

Casing No.	CHAIN						BUCKET				
	BANDO Chain No.	PITCH C	BOLT	ATTACH-MENT	AVG. ULTIMATE STRENGTH(kgf)		BUCKET	THICK-NESS	B1	B2	B3
					CARBON	ALLOY					
BBC200	BD08004S	101.6	M10	Standard K2 ATT	8,000	12,000	CF 220	3.2	200	195	130
BBC280	BD10125S	125	M10		11,500	18,500	CF 2528	3.2	280	240	170
BBC300	BD12006S	152.4	M12	Ply board G4 ATT	17,000	19,500	SC 3030	3.2	300	290	300
BBC300H	BD12006S	152.4	M12		17,000	19,500	SC 3045	3.2	450	290	300
BBC450	BD17200S	200	M14		25,000	27,500	SC 4045	4.5/6.0	450	385	400
BBC450H	BD17200S	200	M14		25,000	27,500	SC 4060	4.5/6.0	600	385	400
BBC600	BD26250N BD36250N	250 250	M16 M16		30,500 51,000	45,000 62,000	SC 5060	4.5/6.0	600	485	500
BBC800	BD36300N BD60300N	300 300	M20 M20		51,000 62,000	62,000 93,500	SC 6080	4.5/6.0	800	580	605
BBC011	BD60350N BD90350N	350 350	M24 M24		62,000 95,000	93,500 137,000	SC 7011	4.5/6.0	1,100	680	700
BBC015	BD90400N BD120400N	400 400	M30 M30		95,000 113,000	137,000 195,000	SC 8015	6.0/9.0	1,500	780	812



(Unit: mm)

Casing No.	CHAIN				BUCKET					
	BANDO Chain No.	AVG. ULTIMATE STRENGTH(kgf)	PITCH C	BUCKET	THICKNESS		B1	B2	B3	BOLT
					BODY	SIDE				
300	BBH10075S - 4t G4 12003S - 4t G4	23,500 29,000	75 76.2	NSS3030	3.2	3.2	300	285	360	M12
300H	BBH10075S - 4t G4 12003S - 4t G4	23,500 29,000Z	75 76.2	NSS3045	3.2	4.5	450	285	360	M12
450	BBH12100S - 4t G4 17100S - 4t G4 26100N - 4t G4	29,000 41,000 57,000	100 100 100	NSS4045	4.5	4.5	450	380	490	M14
450H	BBH12100S - 4t G4 17100S - 4t G4 26100N - 4t G4	29,000 41,000 57,000	100 100 100	NSS4060	4.5	4.5	600	380	490	M14
600	BBH17125S - 4t G4 26125N - 4t G4 36125N - 4t G4	41,000 57,000 91,000	125 125 125	NSS5060	4.5	4.5	600	475	620	M16
600H	BBH17125S - 4t G4 26125N - 4t G4 36125N - 4t G4	41,000 57,000 91,000	125 125 125	NSS5080	4.5	6	800	475	620	M16
800	BBH26150N - 4t G4 36150N - 4t G4 60150N - 4t G4	57,000 91,000 105,000	150 150 150	NSS6080	4.5	6	800	570	740	M20
800H	BBH26150N - 4t G4 36150N - 4t G4 60150N - 4t G4	57,000 91,000 105,000	150 150 150	NSS6010	4.5	6	1,000	570	740	M20
(011)	BBH36175N - 4t G4 60175N - 4t G4 90175N - 4t G4	91,000 105,000 166,000	175 175 175	NSS7011	4.5	6	1,100	670	865	M24
(011H)	BBH36175N - 4t G4 60175N - 4t G4 90175N - 4t G4	91,000 105,000 166,000	175 175 175	NSS7014	4.5	9	1,400	670	865	M24



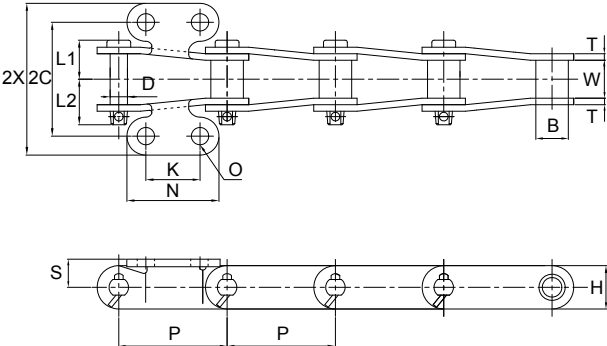
(Unit: mm)

CASING No.	CHAIN			BUCKET						
	BANDO Chain No.	AVG. ULTIMATE STRENGTH(kgf)	PITCH C	BUCKET	THICKNESS		B1	B2	B3	BOLT
					BODY	SIDE				
300	BBS10150S - 2t G4 12006S - 2t G4	23,500 29,000	150 152.4	NSS3030	3.2	3.2	300	285	360	M12
300H	BBS10150S - 2t G4 12006S - 2t G4	23,500 29,000	150 152.4	NSS3045	3.2	4.5	450	285	360	M12
450	BBS12200S - 2t G4 17200S - 2t G4 26200N - 2t G4	29,000 41,000 57,000	200 200 200	NSS4045	4.5	4.5	450	380	490	M14
450H	BBS12200S - 2t G4 17200S - 2t G4 26200N - 2t G4	29,000 41,000 57,000	200 200 200	NSS4060	4.5	4.5	600	380	490	M14
600	BBS17250S - 2t G4 26250N - 2t G4 36250N - 2t G4	41,000 57,000 91,000	250 250 250	NSS5060	4.5	4.5	600	475	620	M16
600H	BBS17250S - 2t G4 26250N - 2t G4 36250N - 2t G4	41,000 57,000 91,000	250 250 250	NSS5080	4.5	6	800	475	620	M16
800	BBS26300N - 2t G4 36300N - 2t G4 60300N - 2t G4	57,000 91,000 105,000	300 300 300	NSS6080	4.5	6	800	570	740	M20
800H	BBS26300N - 2t G4 36300N - 2t G4 60300N - 2t G4	57,000 91,000 105,000	300 300 300	NSS6010	4.5	6	1,000	570	740	M20
011	BBS36350N - 2t G4 60350N - 2t G4 90350N - 2t G4	91,000 105,000 166,000	350 350 350	NSS7011	4.5	6	1,100	670	865	M24
011H	BBS36350N - 2t G4 60350N - 2t G4 90350N - 2t G4	91,000 105,000 166,000	350 350 350	NSS7014	4.5	9	1,400	670	865	M24
015	BBS60400N - 2t G4 90400N - 2t G4 120400N - 2t G4	105,000 166,000 226,000	400 400 400	NSS8015	6	9	1,500	765	990	M30
015H	BBS60400N - 2t G4 90400N - 2t G4 120400N - 2t G4	105,000 166,000 226,000	400 400 400	NSS8020	6	9	2,000	765	990	M30

PLANT BUCKET CONVEYOR CHAIN

Mainly used for sand, gravel, and mud transport of construction sites, it is essential to use the toughest materials for these chains. Therefore, we use steel material on all parts, and the bush and link plates are pressed to ensure the highest degree of dimensional accuracy.

BD4103 B K2 ATTACHMENT



BASIC TYPE

(Unit: mm)

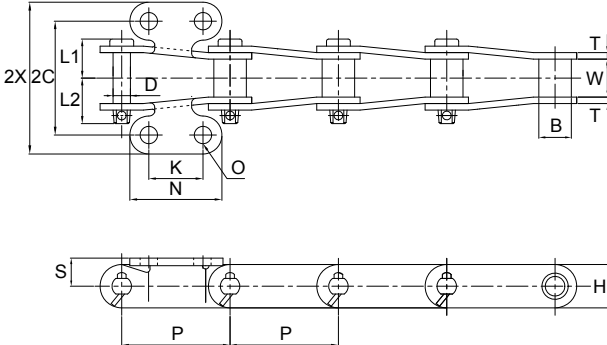
BANDO Chain No.	PITCH P	BUSH B	INNER WIDTH W	PIN			H	T	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
				D	L1	L2				
BD4103 B	78.11	31	29	19.05	38	43	38.1	7.9	13.4	10,000

K-2 ATTACHMENT

(Unit: mm)

BANDO Chain No.	P	S	2C	2X	N	K	E	O	T	ADDITIONAL WEIGHT (kg/pc)
BD4103 B	78.11	26	104.8	138	67	38.2	38.9	14	7.9	0.43

BD488 B K2 ATTACHMENT



BASIC TYPE

(Unit: mm)

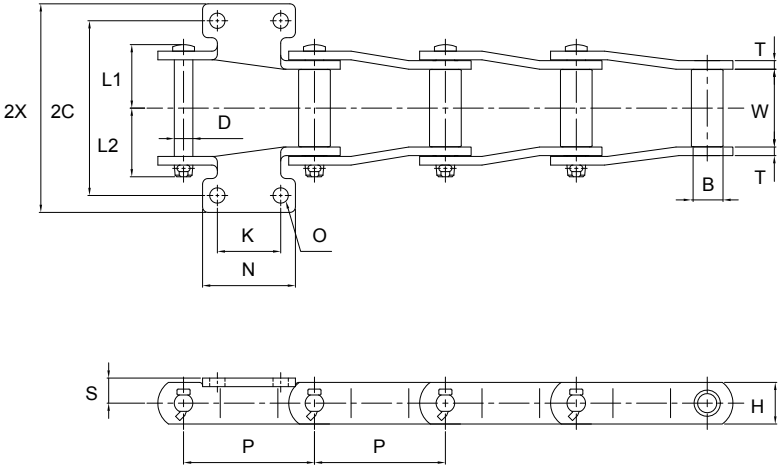
BANDO Chain No.	PITCH P	BUSH B	INNER WIDTH W	PIN			H	T	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
				D	L1	L2				
BD488 B	66.27	22.2	27	11.1	31.5	36.7	28.6	6.3	8.36	8,000

K-2 ATTACHMENT

(Unit: mm)

BANDO Chain No.	P	S	2C	2X	N	K	T	O	ADDITIONAL WEIGHT (kg/pc)
BD488 B	66.27	20	90	114	55	32	6.3	10	0.28

BD710 B K2 ATTACHMENT



BASIC TYPE

(Unit: mm)

BANDO CHAIN No.	PITCH P	BUSH B	INNER WIDTH W	PIN			H	T	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
				D	L1	L2				
BD710B	119.89	29	71.2	17	58	63	38	7.9	12	12,500

K-2 ATTACHMENT

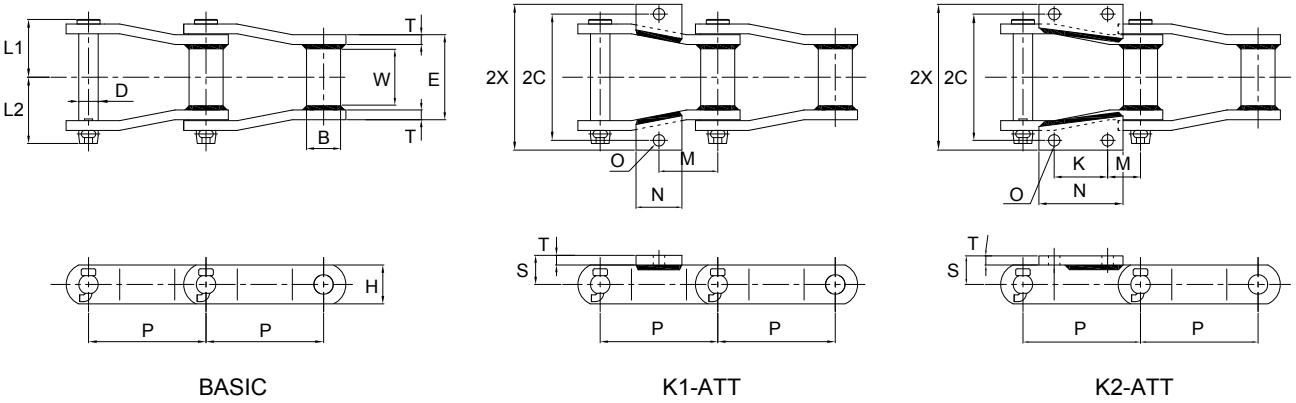
(Unit: mm)

BANDO CHAIN No.	P	S	2C	2X	N	K	O	T	ADDITIONAL WEIGHT (kg/pc)
BD710B	119.89	23	160	191	85	58	14	7.9	0.64

BWH TYPE BUCKET CONVEYOR CHAIN



Pintle chains are made from steel. Bush and link plates are welded to create an integrated body structure, in addition to the pressed pin and link plates. Dimensional accuracy and strength are both improved compared to the casting agent. Quenched pin, W series pin/link plates, and BH series are also available. In addition, sprockets are used as is with casted pintle chains.



BASIC TYPE

(Unit: mm)

BANDO Chain No.	PITCH P	BUSH B	INNER WIDTH W	PIN			E	H	T	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
				D	L1	L2					
BW78 BWH78	66.27	22.2	31.8	12.7	36.5	42.0	50.5	28.6	6.3	6.0	10,400 13,800
BW82 BWH82	78.11	30.2	34.9	14.3	40.5	44.5	57.2	31.8	6.3	8.2	11,600 18,700
BW124 BWH124	101.60	36.5	41.3	19.05	52.0	59.0	69.9	38.1	9.5	12.7	19,700 27,400
BW132 BWH132	153.67	44.5	73.0	25.4	78.0	85.0	111.1	50.8	12.7	20.3	38,100 49,600
BW155 BWH155	153.67	44.5	73.0	28.6	84.5	96.0	117.5	63.5	16.0	30.0	63,500 86,600

K-1/K-2 ATTACHMENT TYPE

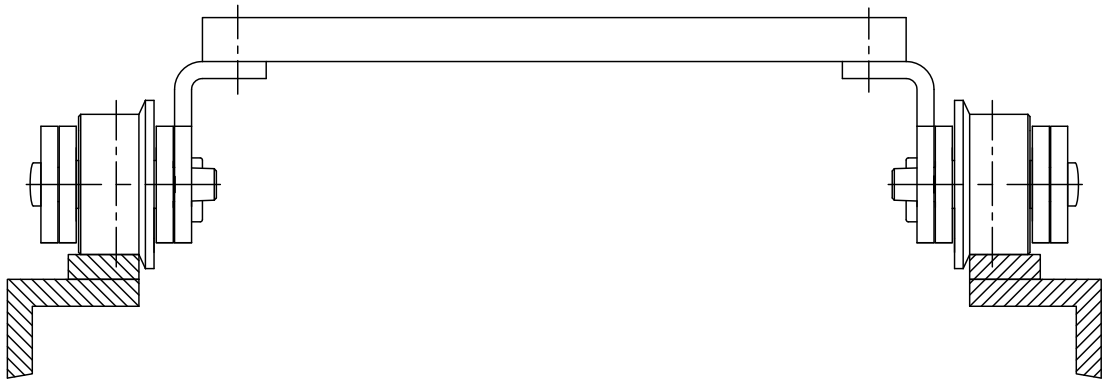
(Unit: mm)

BANDO Chain No.	P	S	2C	2X	K-1 ATTACHMENT		K-2 ATTACHMENT			T	O	AVG. ULTIMATE STRENGTH (kgf)
					M	N	M	K	N			
BW78 BWH78	66.27	21	102	127	35	32	25	29	51	6	11	0.2(0.1)
BW82 BWH82	78.11	22	108	140	40	45	25	33	54	6	11	0.2(0.2)
BW124 BWH124	101.6	29	133	178	-	-	30	49	67	10	11	0.5
BW132 BWH132	153.67	35	165	191	-	-	43	70	110	13	15	1.1



SLAT CONVEYOR CHAIN

Holes are drilled to the bent attachment for easy mounting of slat, apron, and other special attachments. Pairing with various slats and aprons is possible depending on the work environment and chain selection. We can design custom slat and aprons to match any use and/or working condition.



Example)



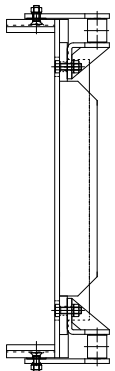
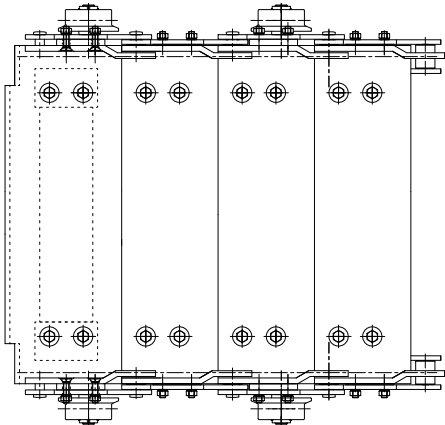
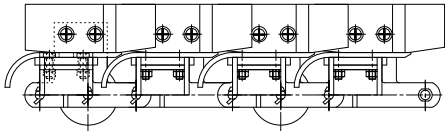
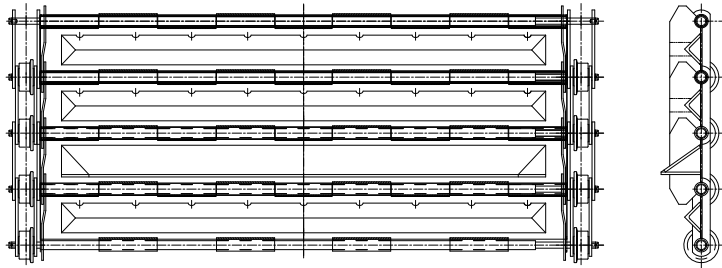


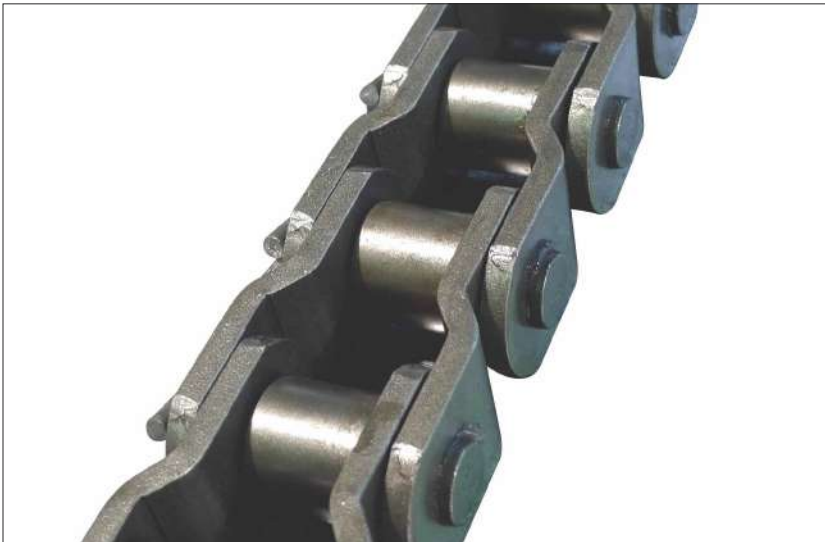
APRON CONVEYOR CHAIN



This hinge plate type chain is used in apron conveyors to transfer granulated particles of machining tools. Even the smallest of granulated dust particles can be safely and effectively transported because it uses the offset type side attachment. Available Long pin type and Slat type according to transported materials. Since specifications can be modified depending on the application,

※ please contact us for accurate advice.

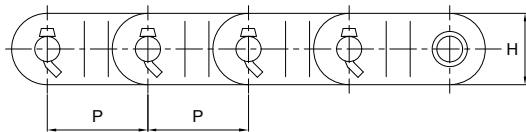
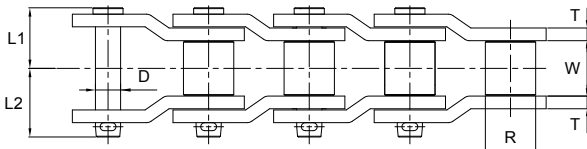




HEAVY DUTY ROLLER CHAIN



BRO Heavy-duty roller chains are made entirely of extra-strength alloy steel and are heat treated to possess superior resistance to abrasion, impact, and fatigue. These chains are subjected to heavy-impact so they are used primarily in heavy driving equipment and drawing machines.

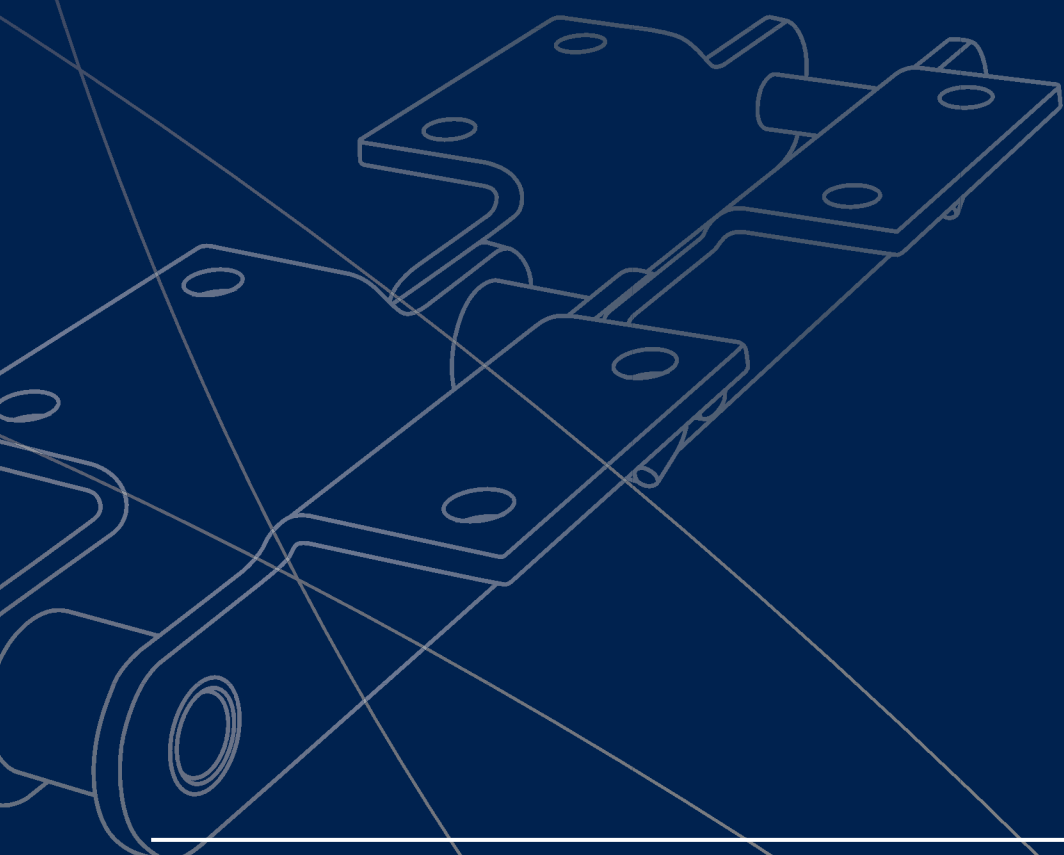


(Unit: mm)

BANDO Chain No.	PITCH P	AVG. ULTIMATE STRENGTH (kgf)	ROLLER DIA. R	INNER WIDTH W	PIN			LINK PLATE		AVG.WEIGHT (kg/m)
					D	L1	L2	H	T	
BRO25H	63.5	34.000	31.75	38.1	15.88	43.1	49.4	41.5	9.5	13.7
BRO568	77.9	50.000	41.28	39.7	19.05	45.0	52.0	57.0	9.5	17.7
BRO3H	78.11	34.000	31.78	38.1	15.88	43.1	49.4	41.5	9.5	12.4
BRO3125	79.38	52.000	41.28	41.3	20.32	40.0	53.5	57.0	9.5	18.8
BRO1616	88.9	63.000	44.45	38.1	22.23	51.6	61.1	57.0	12.7	23.9
BRO4	103.2	63.000	44.45	49.2	22.23	57.0	66.0	54.0	12.7	21.0
BRO4H	103.2	77.000	44.45	49.2	22.23	64.0	73.0	59.0	16.0	23.2
BRO1245	103.45	77.000	45.24	49.2	23.80	60.5	69.5	60.0	14.5	27.2
BRO635	114.3	102.000	57.15	52.4	27.90	64.5	71.0	76.0	14.5	38.3
BRO3	78.11	21.700	31.75	38.1	15.88	40.05	46.65	38.0	8.0	10.6
BRO1343	103.89	98.000	47.63	49.2	25.40	62.5	69.5	70.0	14.5	31.9
BRO1345	103.89	92.000	50.80	49.2	25.40	62.5	69.5	70.0	14.5	32.9
BRO1602AA	127.0	150.000	63.50	69.9	31.75	77.2	84.3	90.0	16.0	52.3
BRO1605AK	127.0	170.000	63.50	69.9	34.93	83.5	89.5	91.0	19.0	54.3
BRO6042	152.4	190.000	76.20	96.2	38.10	87.3	97.6	101.0	19.0	71.3
BRO1625	63.5	43.000	39.69	38.1	19.80	41.0	46.0	59.0	8.0	16.3
BRO1613AK	50.8	31.700	28.58	31.8	15.08	38.2	41.8	429.0	8.0	11.3
BRO1664A	101.6	125.000	57.15	55.6	30.16	66.5	72.5	86.0	14.0	44.5

SPECIAL CONVEYOR CHAIN

- Bearing roller chain
- Low friction & Light duty Conveyor chain
- Side roller chain
- Top roller chain
- BDD type direct transport conveyor chain
- Hollow pin type conveyor chain
- Continuous ship unloader conveyor chain
- Slat band & Crescent chain
- Curve chain & Multi joint chain
- Steel drag conveyor chain
- Trolley conveyor chain

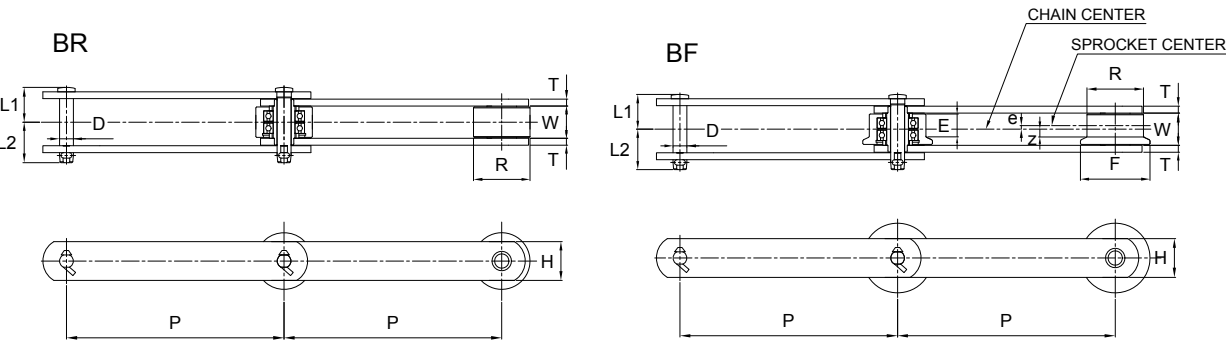


BEARING CHAIN

BALL BEARING CHAIN



- Prevents the drive loss of the chain by reducing the rotational friction of the roller, and is used when the line is long to prevent the surging phenomenon.
- Body and dimensions of the chain segments are the same as the general-purpose attachment conveyor chains.
 - Sprockets are also used for the same general purpose conveyor chains.
 - Rotational Friction Coefficient: 0.035 ~ 0.05



(Unit: mm)

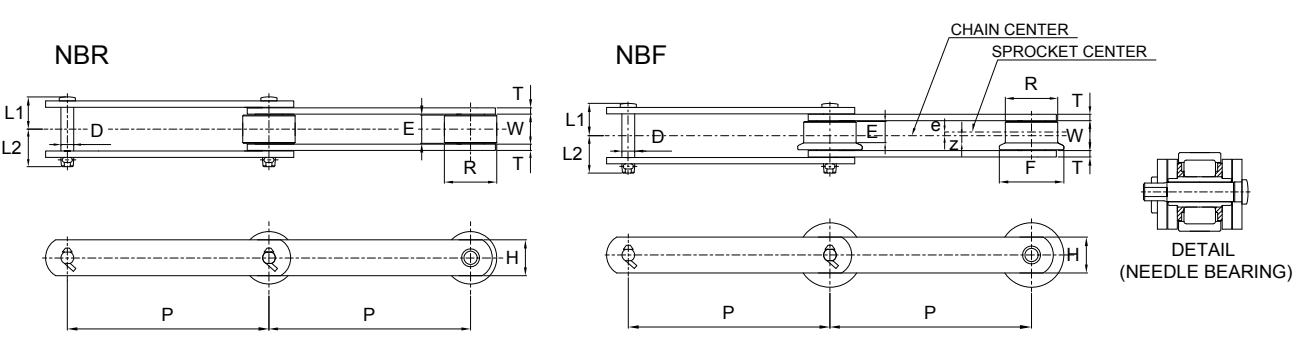
BANDO Chain No.	ROLLER	P	AVG.ULTIMATE STRENGTH(kgf)		AVG.WEIGHT (kg/m)		R . ROLLER	F - ROLLER						W	LINK PLATE		PIN			ROLLER ALLOW-ABLE LOAD (kg/ea)	
			CAR-BON	ALLOY	R	F		R	F	E	e	z	T		H	D	L1	L2	R ROLLER	F ROLLER	
BD05100 BD05150	BR/BF	100 150	7,000	14,500	5.0 4.4	5.2 4.2	40	40	50	14	2.5	4.5	22	4.5	32	11.1	24.6	29.6	310	200	
BD08150	BR/BF	150	8,000	14,500	5.5	5.8	44.5	44.5	55	20	3	7	27	6.3	28.6	11.1	30.7	35.7	420	270	
BD10100 BD10125 BD10150	BR/BF	100 125 150	11,500	23,000	9.8 8.7 7.9	10.3 8.9 8.1	50.8	50.8	65	20	3	7	30	6.3	38.1	14.3	32.7	39.2	560(790)	350	
BD6205	BR/BF	152.4	19,000	28,500	12.1	12.4	57.2	57.2	70	25	3.5	9	37.1	7.9	44.5	15.9	40	46.5	850 (1,200)	560	
BD12200 BD12250	BR/BF	200 250	19,000	28,500	11.4 10.3	11.9 10.6	65	65	80	24	4	8	37.1	7.9	44.5	15.9	40	46.5	850 (1,200)	560	
BD212	BR/BF	152.4	25,000	39,500	17.1	18.0	69.9	69.9	85	25	4	8.5	37.1	9.5	50.8	19.05	44.2	52.7	1,440 (2,000)	1,000	
BD17200 BD17250 BD17300	BR/BF	200 250 300	25,000	39,500	18.8 16.5 15.0	19.8 17.3 15.7	80	80	100	34	5	12	51.4	9.5	50.8	19.05	51.5	60	1,440 (2,000)	1,000	
BD26200 BD26250 BD26300 BD26450	BR/BF	200 250 300 450	32,000	53,000	29 25.3 22.3 18.0	31 26.2 23.6 18.9	100	100	125	38	6	13	57.2	9.5	63.5	22.2	55.2	62.7	2,000 (2,800)	1,400	
BD36250 BD36300 BD36450	BR/BF	250 300 450	48,500	69,500	42.7 39.0 30.7	45.8 40.1 31.9	125	125	150	49	8	16.5	77	12.7	90	35	77	84	2,800 (3,900)	1,900	

※ Indicated in parentheses are inserted 2pcs bearings for 1 roller.

NEEDLE BEARING CHAIN



- This chain mounts a needle between the roller and the bushing. Low rotational friction rollers, high load capacity roller.
- chain units and the dimensions of a general-purpose conveyor chains are the same.
 - Sprockets are used in the same way (with needle bearing chains) as with general conveyor chains.
 - Rotational friction coefficient: f : 0.035 ~ 0.05.



(Unit: mm)

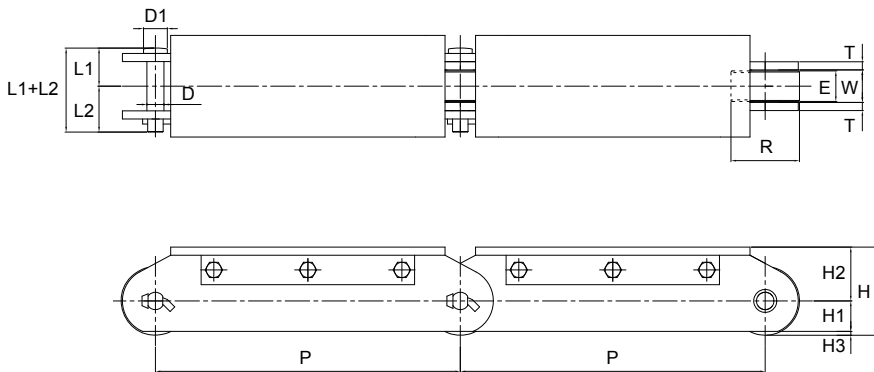
BANDO Chain No.	ROLLER	P	AVG.ULTIMATE STRENGTH(kgf)		AVG.WEIGHT (kg/m)		R ROLLER		F ROLLER						LINK INNER WIDTH W	LINK PLATE		PIN			ROLLER ALLOWABLE LOAD (kg/ea)	
			CAR-BON	ALLOY	R ROLLER	F ROLLE	R	E	R	F	E	e	z	T		H	D	L1	L2	R ROLLER	F ROLLER	
BD03075 BD03100	NBR/NBF	75 100	3,000	7,100	2.7 2.3	2.8 2.4	31.8	15.5	31.8	42	12	1.8	4.3	16.1	3.2	22	7.9	17.5	19.5	200	130	
BD05100 BD05150	NBR/NBF	100 150	7,000	14,500	5.0 4.1	5.2 4.2	40	19	40	50	14	2.5	4.5	22	4.5	32	11.1	24.6	29.6	310	200	
BD450	NBR/NBF	101.6	8,000	14,500	6.8	7.2	44.5	23	44.5	55	20	3	7	27	6.3	28.6	11.1	30.7	35.7	420	270	
BD08150	NBR/NBF	150	8,000	14,500	5.5	5.6	44.5	23	44.5	55	20	3	7	27	6.3	28.6	11.1	30.7	35.7	420	270	
BD10100 BD10125 BD10150	NBR/NBF	100 125 150	11,500	23,000	9.8 8.7 7.9	10.3 8.9 8.1	50.8	27	50.8	65	20	3	7	30	6.3	31.8	14.3	32.7	39.2	560	350	
BD6205	NBR/NBF	152.4	19,000	28,500	12.1	12.4	57.2	32	57.2	70	25	3.5	9	37.1	7.9	44.5	15.9	40	46.5	850	560	
BD12200 BD12250	NBR/NBF	200 250	19,000	28,500	11.4 10.3	11.9 10.6	65	32	65	80	24	4	8	37.1	7.9	44.5	15.9	40	46.5	850	560	
BD212	NBR/NBF	152.4	25,000	39,500	17.1	18	69.9	32.5	69.9	85	25	4	8.5	37.1	9.5	50.8	19.05	44.2	52.7	1,440	1,000	
BD17200 BD17250 BD17300	NBR/NBF	200 250 300	25,000	39,500	18.8 16.5 15.0	19.8 17.3 15.7	80	44	80	100	34	5	12	51.4	9.5	50.8	19.05	51.5	60	1,440	1,000	
BD26200 BD26250 BD26300 BD26450	NBR/NBF	200 250 300 450	32,000	53,000	29.0 25.3 22.2 18.0	31.0 26.2 23.6 18.9	100	50	100	125	38	6	13	57.2	9.5	63.5	22.2	55.2	62.7	2,000	1,400	
BD36300 BD36450 BD36600	NBR/NBF	300 450 600	48,500	69,500	42.7 39.0 30.7	45.8 40.1 31.9	125	56	125	150	49	8	16.5	77	12.7	90	35	77	84	2,800	1,900	



LOW-FRICTION & LIGHT DUTY CONVEYOR CHAIN

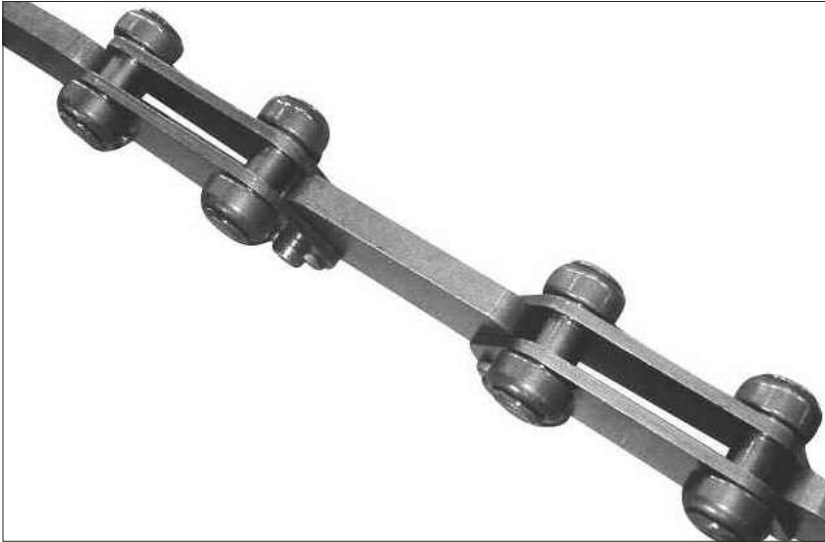


The primary products to be transported from steel plants are cold coil, hot coil slabs and container, steel structures which are extremely heavy. Therefore heavy-duty chains are needed to transport materials.



(Unit: mm)

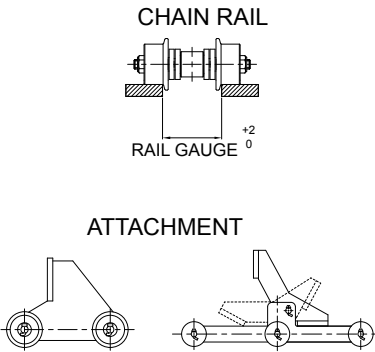
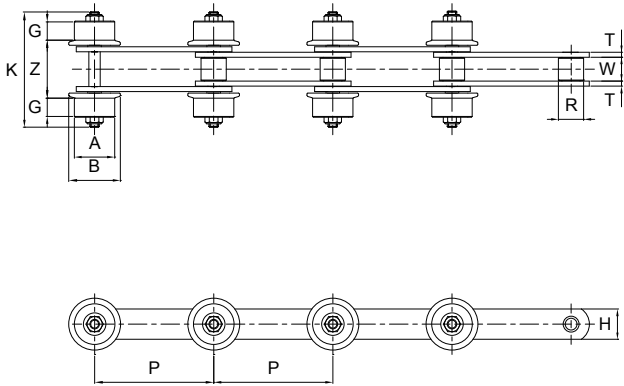
BANDO Chain No.	PITCH P	ROLLER		INNER WIDTH W	THICK- NESS T	HIGHT				PIN					AVG. WEIGHT (kg/m)	MAXIMUM ALLOWABLE TENSION (kgf)	ROLLER ALLOW- ABLE LOAD (kg/ea)	AVG. ULTIMATE STRENGTH (kgf)
		R	E			H	H1	H2	H3	DIA.		LENGTH						
										D	D1	L1+L2	L1	L2				
BCT60300	300	125	60	65	12	171	42.5	108.5	20	28	36	165	87	78	88	8,500	3,000	60,000
BCT60400	400														80			
BCT60500	500														76			
BCT90300	300	135	65	79	12	182.5	54	115	13.5	30	36	179	94	85	97	12,800	3,600	90,000
BCT90400	400														89			
BCT90500	500														85			
BCT130300	300	150	70	84	15	195	61	120	14	38	46	197	103	94	119	18,500	4,300	130,000
BCT130400	400														109			
BCT130500	500														102			
BCT160400	400	175	80	91	17	227	69	139.5	18.5	41	46	209	109	100	139	22,800	5,700	160,000
BCT160500	500														130			
BCT160600	600														122			
BCT200600	600	180	90	102.6	19	225	76	135	14	45	50	229	119	110	141	28,500	6,600	200,000



SIDE ROLLER CHAIN



S roller (found in the center of the chain) is the sole driving force. Side rollers are used when special attachments are needed or when the S roller isn't sufficient to withstand the weight of the chain. Side roller chains use long pins to attach side rollers and side rollers assist S roller in guiding and balance. When there is concern for line surging, uses a bearing for the side roller or press a ball-bearing to the roller. Special attachments are attached to assist with heavy loads.



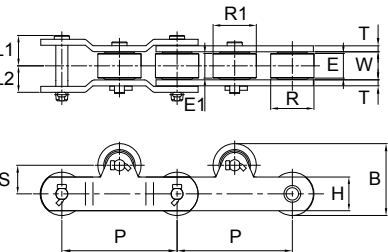
(Unit: mm)

BANDO Chain No.	PITCH P	ROLLER DIA. R	INNER WIDTH W	PLATE		SIDE ROLLER			K	Z	SIDE ROLLER (kg/ea)	RAIL DISTANCE	SIDE ROLLER ALLOWABLE LOAD (kgf)
				H	T	A	B	G					
BD03075S BD03100S	75 100	15.9	16.1	22	3.2	31.75	42	12	76	38	0.3	40	110
BD430S	101.6	20.1	22.6	25.4	4.5	38.1	50	15	103	56	0.5	58	160
BD05075S BD05100S BD05150S	75 100 150	22.2	22	32	4.5	40	50	14	102	55	0.5	57	200
BD450S	101.6	22.2	27	28.6	6.3	44.5	55	20	130	70.5	0.7	72.5	240
BD10100S BD10150S	100 150	29	30	38.1	6.3	50.8	65	20	136	73	1.0	75	330
BD6205S	152.4	34.9	37.1	44.5	7.9	57.2	70	25	167	90.5	1.3	92.5	470
BD12200S BD12250S	200 250	34.9	37.1	44.5	7.9	65	80	24	167	92.5	1.8	94.5	470
BD17200S BD17250S BD17300S	200 250 300	40.1	51.4	50.8	9.5	65	80	24	192	112.5	3.8	114.5	540
BD26200S BD26250S BD26300S	200 250 300	44.5	57.2	63.5	9.5	80	100	34	229	124.5	6.9	126.5	860
BD36250S BD36300S BD36450S	250 300 450	50.8	66.7	76.2	12.7	100	125	38	268	151	11.7	153	1130

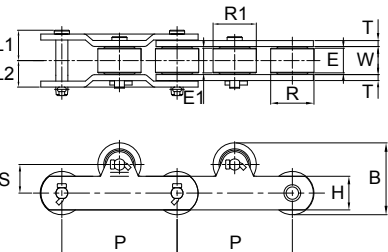
TOP ROLLER CHAIN



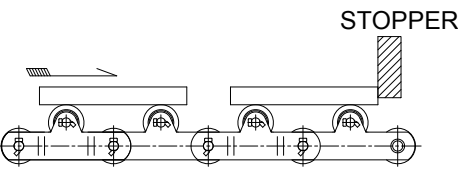
Used when the chain is running automatically but uses a stopper (to stop the material) , or when the chain and the transported materials are stopped simultaneously. Also used when there is impact from the transferred material exiting the system.
When you intend to decrease the impact when lowering (conveyed substances), use B as the primary.



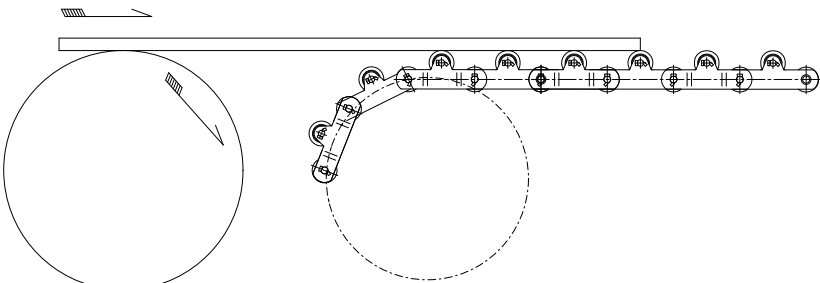
TYPE1



TYPE2



(A)



(B)

(Unit: mm)

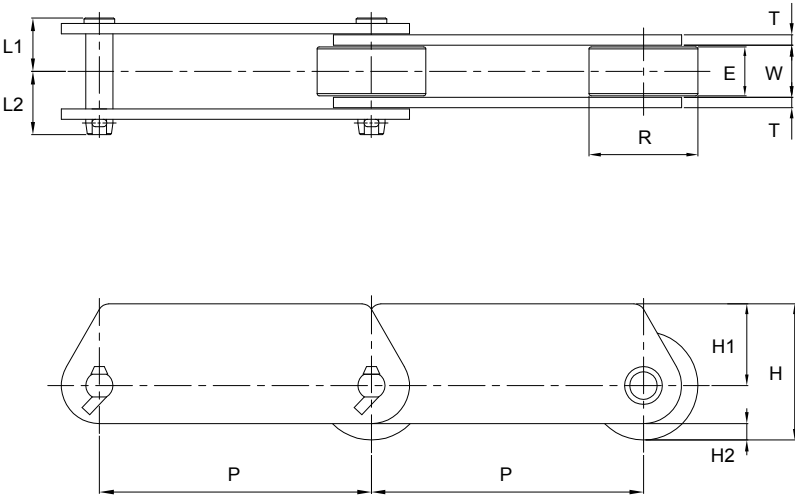
BANDO Chain No.	PITCH P	ROLLER		INNER WIDTH W	LINK PLATE		PIN		S	TOP ROLLER		B	APPROX. WEIGHT (kg/m)	AVG. TOP ROLLER WEIGHT (kg/ea)	TOP ROLLER ALLOWABLE LOAD (kgf/ea)	
		R	E		H	T	L1	L2		R1	E1				CARBON	ALLOY
BD03075R BD03100R	75 100	31.75	15.5	16.1	22	3.2	17.5	19.5	23.1	40	PL:20 RL:13	59	2.7 2.3	0.18	35	60
BD05100R BD05150R	100 150	40	19	22	32	4.5	24.6	29.6	30	40	19	70	5.0 4.1	0.26	65	105
BD08150R	150	44.5	23	27	28.6	6.3	30.65	35.65	30	40	23	72.2	5.5	0.35	80	130
BD10150R	150	50.8	27	30	38.1	6.3	32.7	39.2	30	50.8	27	80.8	7.9	0.56	115	195
BD6205R	152.4	57.2	32	37.1	44.5	7.9	39.95	46.45	37.8	57.2	32	95	12.1	0.91	150	255
BD12200R	200	65	32	37.1	44.5	7.9	39.95	46.45	45	65	32	110	11.4	1.15	150	255
BD17200R	200	80	44	51.4	50.8	9.5	51.5	60	65	80	44	145	18.8	2.58	250	420



BDD TYPE CONVEYOR CHAIN FOR DIRECT TRANSPORT



This chain allows materials to be transported directly on the chain itself. Example uses include automobile assembly lines and steel factory operations. When the line is extra-long, pressed ball-bearings are used on the rollers.



(Unit: mm)

BANDO Chain No.	PITCH H P	ROLLER		W	HEIGHT H	LINK PLATE			PIN		APPROX. WEIGHT (kgf)	ROLLER AVAILABLE LOAD (kgf/pc)		AVG. ULTIMATE STRENGTH (kgf)	
		DIA. R	ENGAGED WIDTH E			HEIGHT		T	L1	L2		CARBON	ALLOY	CARBON	ALLOY
						H1	H2								
BDD03075R BDD03100R	75 100	31.75	15.5	16.1	36.9	21	4.9	3.2	17.5	19.5	3.2 2.8	55	90	3,000	7,100
BDD05100R BDD05150R	100 150	40	19	22	44	24	4	4.5	24.6	29.6	5.9 4.9	105	175	7,000	14,500
BDD08150R	150	44.5	23	27	50.3	28	8	6.3	30.65	35.65	7.0	130	215	8,000	14,500
BDD10150R BDD10200R	150 200	50.8	27	30	57.4	32	6.4	6.3	32.7	39.2	9.7 8.5	180	300	11,500	23,000
BDD6205R	152.4	57.2	32	37.1	63.5	35	6	7.9	39.95	46.45	14.0	225	425	19,000	28,500
BDD12200R BDD12250R	200 250	65	32	37.1	73.5	41	10	7.9	39.95	46.45	14.9 13.5	225	425	19,000	28,500
BDD17250R BDD17300R	250 300	80	44	51.4	90	50	13.8	9.5	51.5	60	22.5 21.5	410	680	25,000	39,500
BDD26300R	300	85*	50	57.2	95.5	53	10.5	9.5	55.2	62.7	24.3	540	900	32,000	53,000
BDD36300R BDD36400R	300 400	100*	56	66.7	112	62	12	12.7	67.55	75.55	39.0 34.2	760	1,260	48,500	69,500
BDD52450R	450	110*	56	77	125	70	17	16	82.5	93	46.0	1,000	1,690	51,000	105,000

※ Note. the roller outer dia. of the parts of ※ is different with the standard conveyor chain spec. Please check before selection.

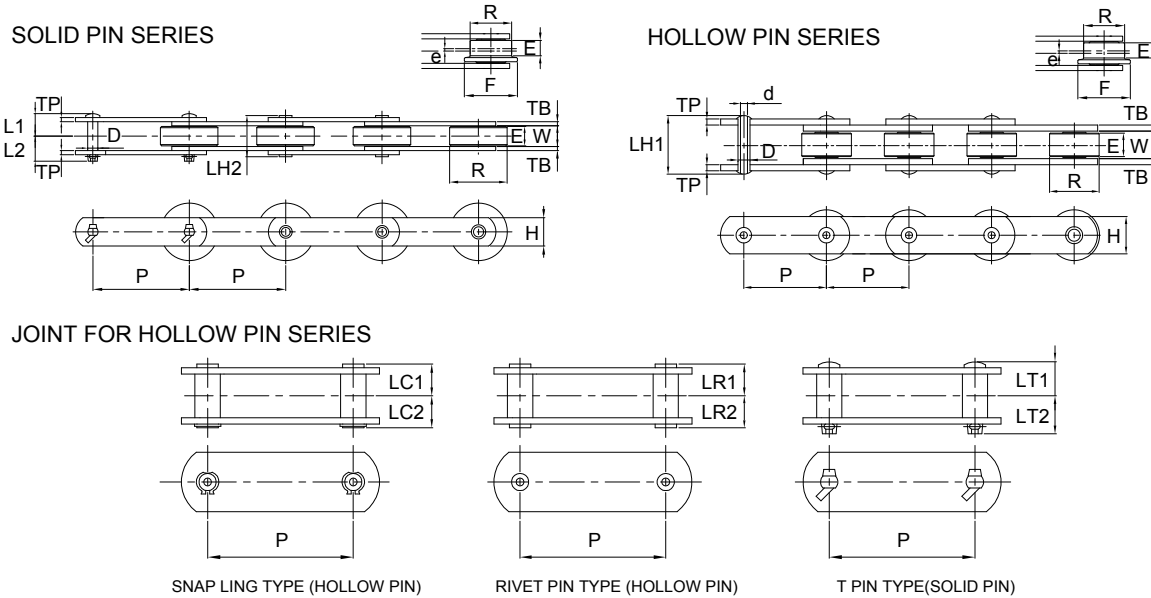
BAR ATTACHMENT CONVEYOR CHAIN



Hollowed-pin bush roller chain (BD type of Bushed roller chain) according to the way of Bars go through each pin hole, net/hinge types are well suited with apron and bucket attachments. Uses an extra hole for special attachments and easy to removal.

Solid-Pin Series

These chains use the solid version of the pins used in the hollowed-pin series.

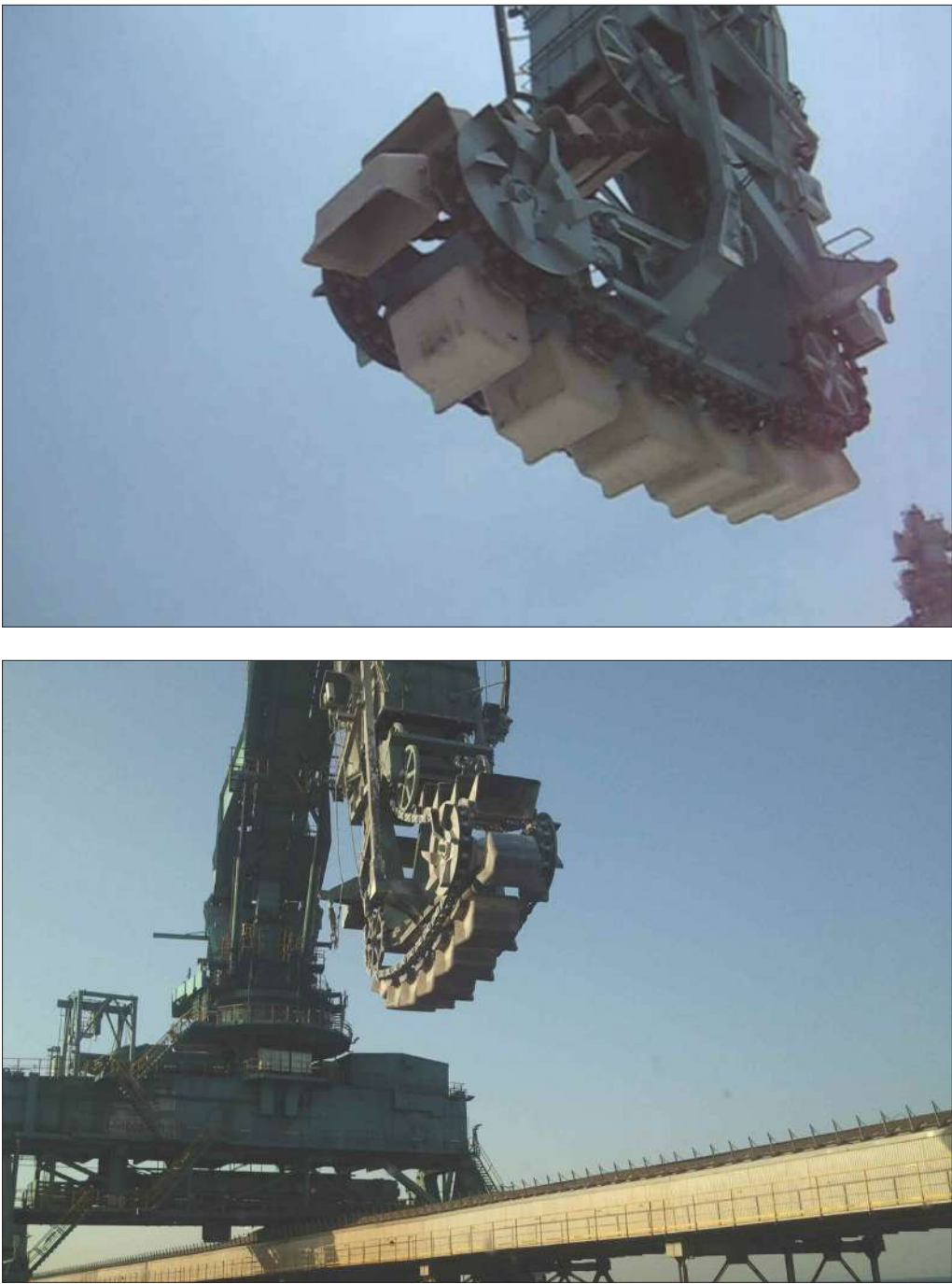


NON ATTACHMENT TYPE (HOLLOW PIN, SOLID PIN SERIES) (Unit: mm)

BANDO Chain No.		PITCH P	ROLLER					ROLLER LINK INNER WIDTH W	LINK PLATE			PIN			
HOLLOW PIN SERIES	SOLID PIN SERIES		OUTTER DIA. R	R ROLLER ENGAGED WIDTH E	F ROLLER				WIDTH H	THICKNESS		OUTTER DIA. D	HOLLOW		SOLID
					F	E	e			TP	TB		d	LH1	
BEH060030	BES075030	76.2	31.8	14.0	41	11.0	1.5	15.2	25.4	3.8	3.8	14.0	9.65	36.2	37.6
BEH060040	BES075040	101.6													
BEH060060	BES075060	152.4													
BEH120030	BES150030	76.2	47.6	17.8	60	14.0	1.9	19.1	38.1	3.8	5.1	19.05	13.21	43.4	45.2
BEH120040	BES150040	101.6													
BEH120060	BES150060	152.4													
BEH240040	BES300040	101.6	66.7	24.1	86	17.8	3.2	25.4	50.8	5.1	7.1	26.92	19.56	57.2	59.0
BEH240060	BES300060	152.4													

(Unit: mm)

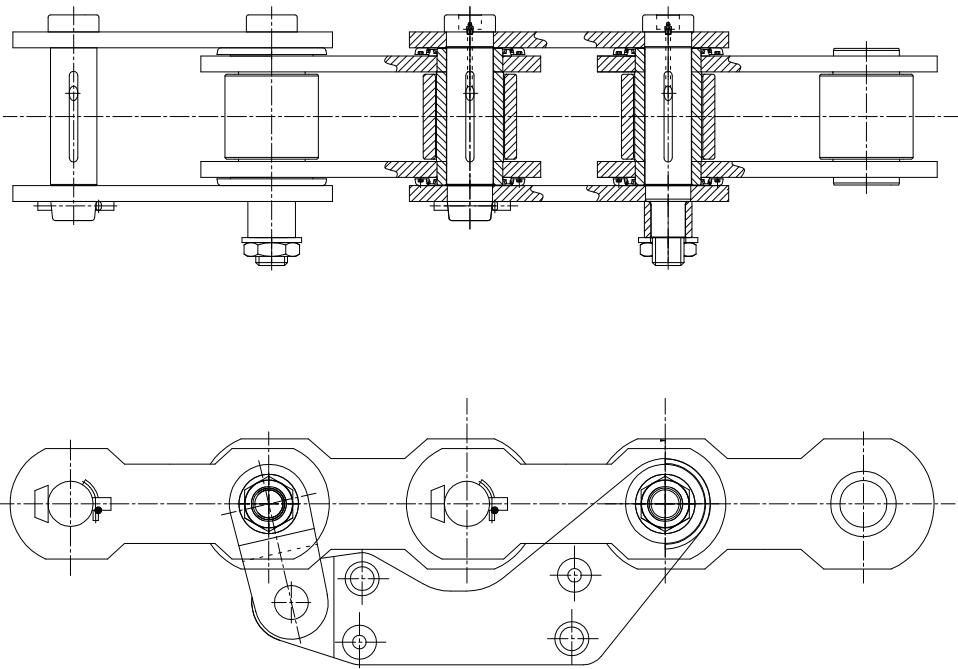
BANDO Chain No.		SOLID PIN SERIES (JOINT)		HOLLOW PIN SERIES						AVG. ULTIMATE STRENGTH (kgf)		APPROX. WEIGHT (kgf)	
HOLLOW PIN SERIES	SOLID PIN SERIES	L1	L2	T PIN TYPE		RIVET PIN TYPE		SNAP LING TYPE		HOLLOW	SOLID	HOLLOW	SOLID
				LT1	LT2	LR1	LR2	LC1	LC2				
BEH060030 BEH060040 BEH060060	BES075030 BES075040 BES075060	18.8	25.2	18.8	25.2	18.1	18.3	18.1	19.8	2,700	3,400	2.9 2.6 2.3	3.2 2.8 2.5
BEH120030 BEH120040 BEH120060	BES150030 BES150040 BES150060	22.6	29.9	22.6	29.9	21.7	21.9	21.7	23.8	5,400	6,800	6.9 5.9 4.8	7.4 6.2 5.1
BEH240040 BEH240060	BES300040 BES300060	29.5	38.5	29.5	38.5	28.6	29.0	28.6	30.9	11,000	13,500	13.2 10.5	14.6 11.5



CONTINUOUS SHIP UNLOADER CONVEYOR CHAIN



This chain primarily consists of 1 or 2 lines and uses bucket attachments to convey iron ore, coal, limestone, raw materials, grain, etc. These chains are made with extra anti-abrasion and anti-corrosive properties to withstand the harsh acerbic properties of sea water and high-speed, continuous operation.



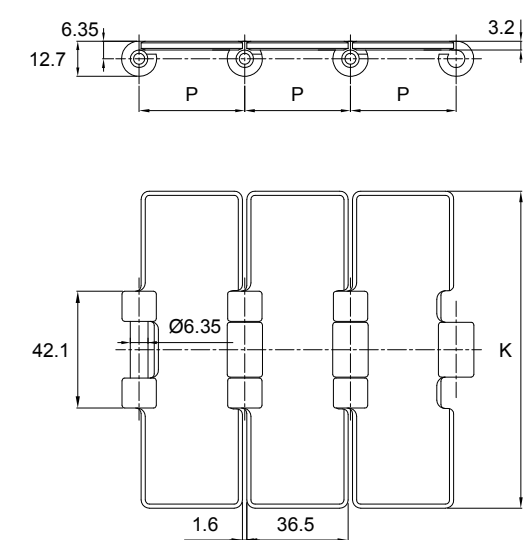
SLAT BEND & CRESCENT CHAIN

Slat bends/crescent chains are used in food industries, chemicals, etc.

SLAT BEND CHAIN

A simple roller type of chain consisting of pin and hinges and widely used in canned foods production, chemicals, bottling plants, sterilization and cleaning.

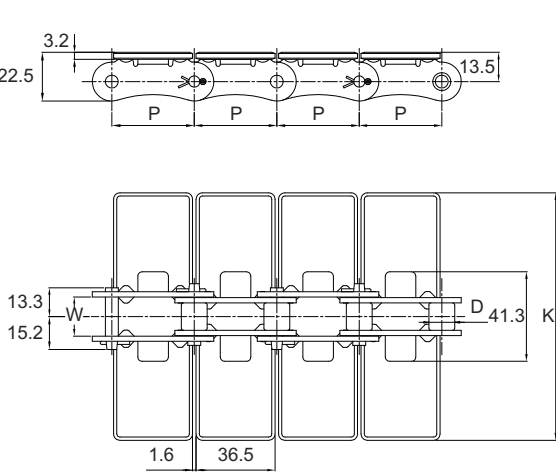
(Unit: mm)



BANDO Chain No.	PITCH P	APPROX. WEIGHT (g/ea)	PLATE WIDTH K
BDTT-22	38.1	52	57.2
BDTT-24	38.1	58	63.5
BDTT-30	38.1	70	76.2
BDTT-32	38.1	76	82.6
BDTT-34	38.1	79	88.9
BDTT-36	38.1	82	95.3
BDTT-40	38.1	92	101.6
BDTT-43	38.1	97	110.0
BDTT-44	38.1	103	114.3
BDTT-50	38.1	116	127.0
BDTT-60	38.1	140	152.4
BDTT-61	38.1	152	155.6
BDTT-64	38.1	159	165.1
BDTT-70	38.1	162	177.8
BDTT-74	38.1	175	190.5

PLATE TOP CHAIN

(Unit: mm)



BANDO Chain No.	PITCH P	APPROX. WEIGHT (g/ea)	ROLLER DIA. D	ROLLER LINK WIDTH W	TOP PLATE WIDTH K
BDTP-24	38.1	109	11.9	12.7	63.5
BDTP-26	38.1	111	11.9	12.7	69.9
BDTP-30	38.1	113	11.9	12.7	76.2
BDTP-32	38.1	125	11.9	12.7	82.6
BDTP-34	38.1	135	11.9	12.7	88.9
BDTP-36	38.1	140	11.9	12.7	95.3
BDTP-40	38.1	157	11.9	12.7	101.6
BDTP-43	38.1	165	11.9	12.7	110.0
BDTP-44	38.1	168	11.9	12.7	114.3
BDTP-46	38.1	180	11.9	12.7	120.7
BDTP-50	38.1	200	11.9	12.7	127.0
BDTP-60	38.1	220	11.9	12.7	152.4
BDTP-61	38.1	223	11.9	12.7	155.6
BDTP-64	38.1	240	11.9	12.7	165.1
BDTP-74	38.1	276	11.9	12.7	190.5

CRESCENT CHAIN

BDTO TYPE

(Unit: mm)

BANDO Chain No.	PITCH P	MAXIMUM ALLOWABLE TENSION(kgf)	APPROX. WEIGHT (Kg/ea)	DIMENSION	
				S	K
BDTO-32S	76.2	300	4.1	17.9	82.6
BDTO-44S			4.8	17.9	114.3
BDTO-70S			6.3	21.1	177.8

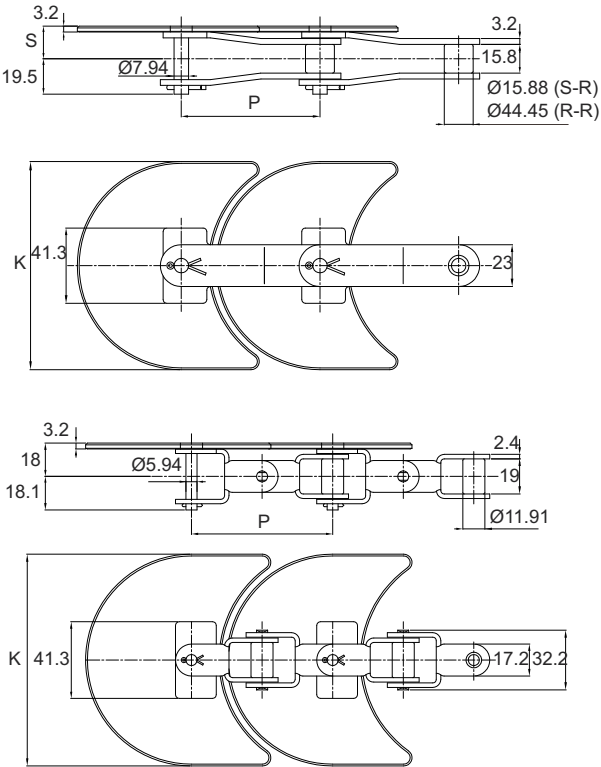
(Unit: mm)

BANDO Chain No.	PITCH P	MAXIMUM ALLOWABLE TENSION(kgf)	APPROX. WEIGHT (Kg/ea)	DIMENSION	
				S	K
BDTO-32R	76.2	300	5.9	17.9	82.6
BDTO-44R			6.9	17.9	114.3
BDTO-70R			8.1	21.1	177.8

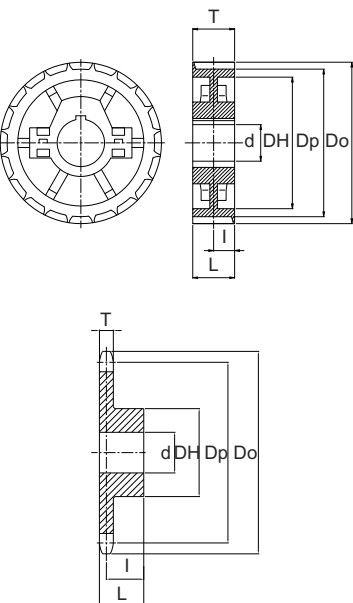
BDTU TYPE

(Unit: mm)

BANDO Chain No.	PITCH P	MAXIMUM ALLOWABLE TENSION(kgf)	APPROX. WEIGHT (Kg/ea)	DIMENSION	
				K	
BDTU-32	76.2	100	3.8	82.6	
BDTU-44			4.5	114.3	



SPROCKET FOR CRESCENT CHAIN



(Unit: mm)

BANDO Sprocket No.	TEETH No. NT	TYPE	PITCH DIA. Dp	OUTTER DIA. Do	TEETH WIDTH T	APPROX. WEIGHT (Kg/ea)	SHAFT DIA. d		BOSS	
							MIN	MAX	DIA DH	LENGTH L
BDTT-21	21	A	129.26	129	43.0	3.7	18	40	103	50
BDTT-23	23		141.22	141		4.3			114	
BDTT-25	25		153.20	153		5.0			124	

(Unit: mm)

BANDO Sprocket No.	TEETH No. NT	TYPE	PITCH DIA. Dp	OUTTER DIA. Do	TEETH WIDTH T	APPROX. WEIGHT (Kg/ea)	SHAFT DIA. d		BOSS	
							MAX		DIA DH	LENGTH L
BDTP-19	19	B	117.34	126	11.7	2.1	55		83	40
BDTP-21	21		129.26	138		2.3				
BDTP-23	23		141.22	150		2.7				45
BDTP-25	25		153.2	162		3				

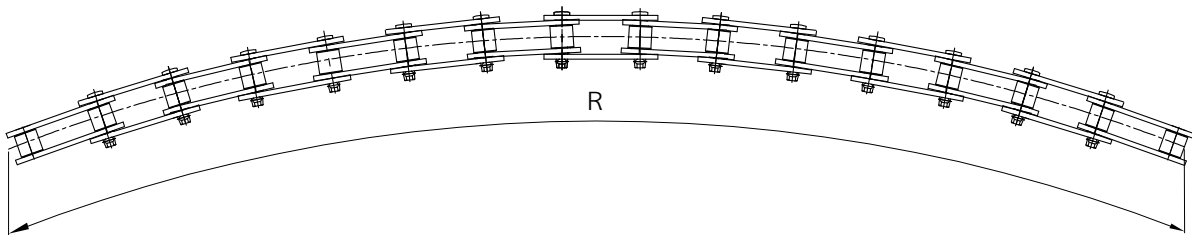
※ 1. The sprocket for BDTP type is same as #2060.
2. In case of the number of teeth is more than 30NT, Please use the sprocket for #60 roller.



CURVE CHAIN & MULTI JOINT CHAIN

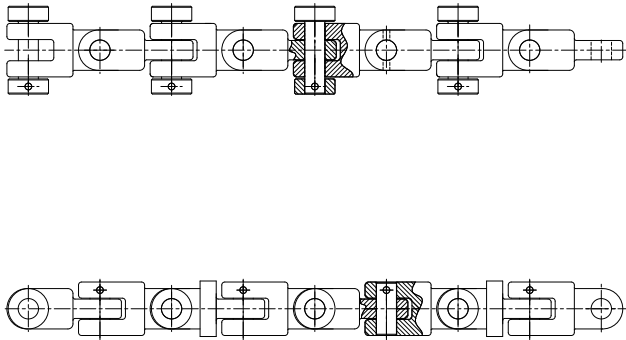
CURVE CHAIN

Depending on the intended use, straight, curving, or right/left flexion of the chains may be necessary; curved chains are most suitable in such circumstances. These chains are used when the distance between the pin link and bush link reaches the limit (by calculating the radius R).

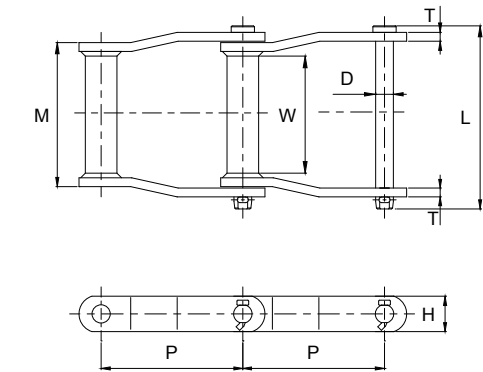


MULTI JOINT CHAIN

Usually, up/down movements of the chain are expected, but right/left flexion is not. However, when lateral movement of the chains is necessary, multi-joint chains are suitable.



STEEL DRAG CONVEYOR CHAIN

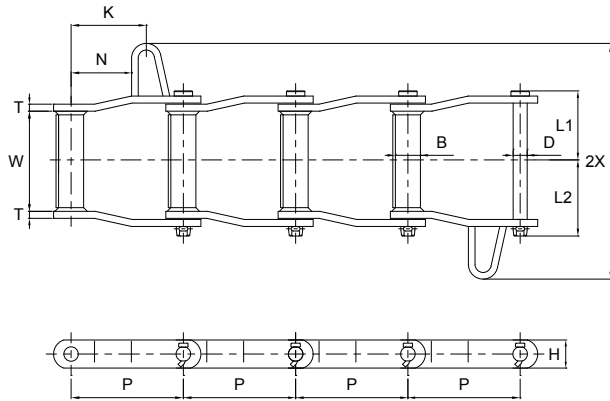


Steel drag chain is very useful to transfer minute particles by moving chain body closely meet the bottom of the case. (Available to change the chain inner width.)

(Unit: mm)

BANDO Chain No.	APPROX. WEIGHT (kgf)	PITCH P	LINK PLATE		PIN		M	W	APPROX. WEIGHT (Kg/m)
			THICKNESS T	HEIGHT H	D	L			
BWD102	23,000	127.0	9.5	38.1	19.05	224	179	140	16.7
BWD104	23,000	152.4	9.5	38.1	19.05	182	137	102	12.6
BWD110	23,000	152.4	9.5	38.1	19.05	314	270	230	17.6
BWD112	23,000	203.2	9.5	38.1	19.05	310	268	248	14.6
BWD116	23,000	203.2	9.5	44.5	19.05	404	362	330	21.4
BWD480	30,000	203.2	12.7	50.8	22.00	273	325	280	29.2

BWD112 SPECIAL 1/3 ATTACHMENT



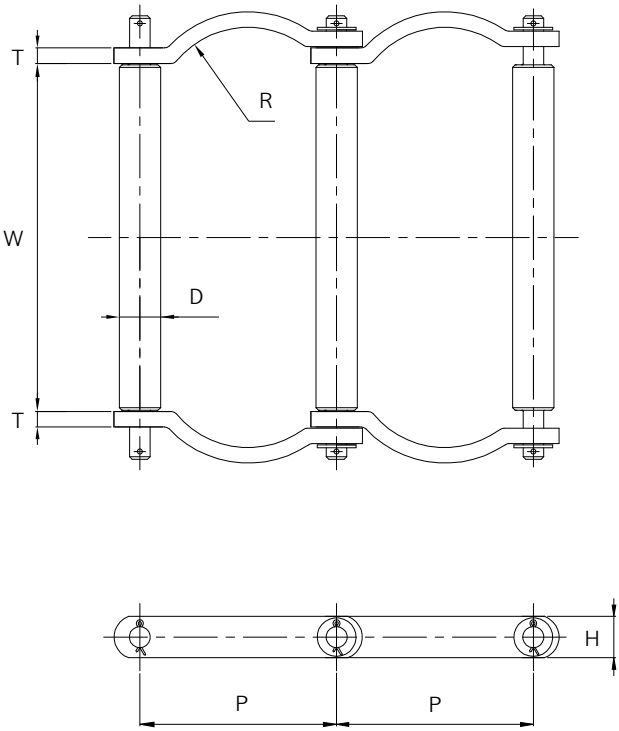
Mainly used in the manufacturing mill of the Plywood or board to transfer the minute woods particles. (Available to change the chain inner width and attachment dimensions.)

(Unit: mm)

BANDO Chain No.	PITCH P	BUSH DIA. B	INNER WIDTH W	PIN			H	T	2X	M	N	K
				D	L1	L2						
BWD112	203.2	34	249	20	151	159	38.1	9.5	520	230	82.5	106.5

BD6" STEEL DRAG CHAIN

Mainly used in feed factory, corn and starch powder transfer solutions. (Available to change the chain inner width and attachment dimensions. Please contact us.)



(Unit: mm)

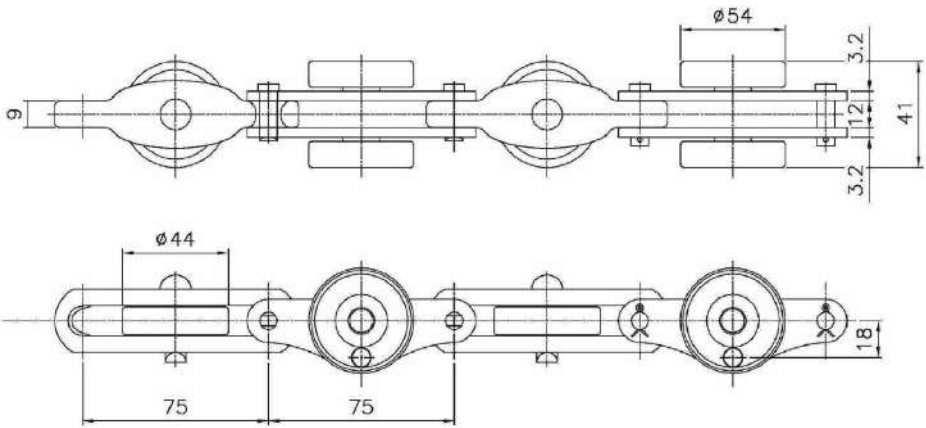
BANDO Chain No.	PITCH P	PIN		INNER WIDTH W	THICKNESS T	HEIGHT H	ROUND R	APPROX. WEIGHT (Kg/m)	AVG. ULTIMATE STRENGTH (kgf)
		OUTTER DIA. D	LENGTH L						
BD6"	152.4	32	350.6	270	12	31.8	65	22	14,400



TROLLEY CONVEYOR CHAIN

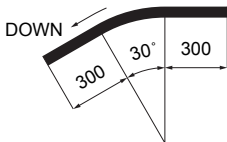
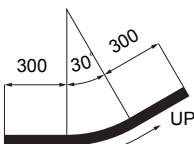
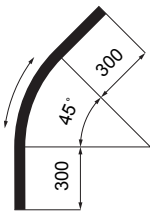
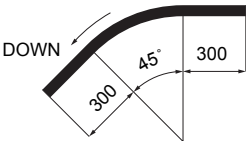
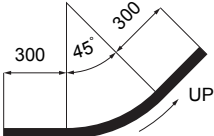
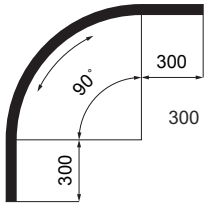
Z-TYPE TROLLEY CONVEYOR CHAIN :NZ-75

These chains are made for continuous production – they abbreviate the overall process and are designed for up and down, left and right rotation to fit in tight spaces. The Z-type trolley is easier than its counterparts in assembly and disassembly and has become more popular in recent years.



(Unit: mm)

SPECIFICATION	CAPACITY	SPECIFICATION	CAPACITY
PITCH	75mm	Horizontal curvature radius	R600
AVG. ULTIMATE STRENGTH (kgf)	5,000kgf	Elevation angle Curvature radius	R600
LOADABLE WEIGHT	" I - hanger " -25Kg (include hanger)	Horizontal bend angle	30°,45°,60°,90°
	" U - hanger " -50Kg (include hanger)	Elevation bend angle	30°,45°,60°,90°,180°

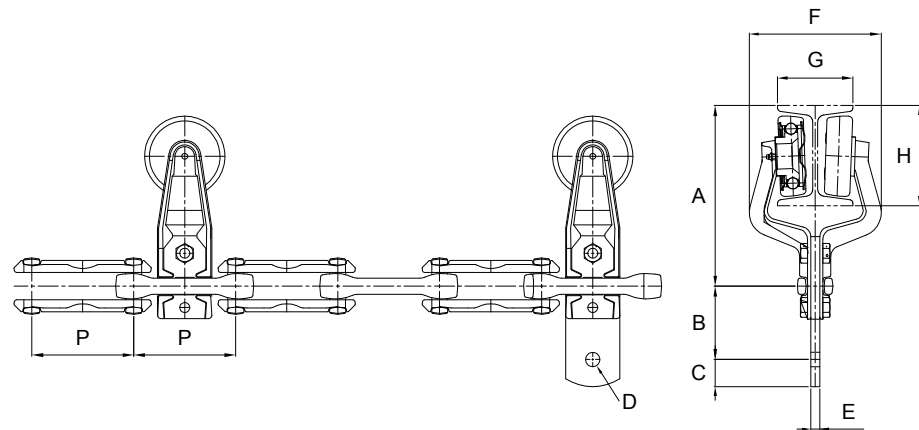


TROLLEY CHAIN (TR348, TR458, TR678)



FEATURES

- They abbreviate the overall process with continuous productions.
- Economically transports heavy items.
- Inspection, maintenance, and repairs are all easy to perform because chain is exposed.



SPECIFICATIONS

BANDO Chain No.		TR - 348	TR-458	TR- 678
CHAIN	PITCH	76.2mm	101.6 mm	152.4mm
	AVG. ULTIMATE STRENGTH (kgf)	12,000kg	24,000kg	40,000kg
TROLLEY	ALLOWABLE LOAD	1,000kg	2,000kg	3,300kg
	WEIGHT(kg/m)	3.4	4.6	9.0
LOAD CONDITION	SINGLE HANGER(kg)	90	180 / 360	380 / 760
	ROD BAR (kg)	180		
STNADARD HORIZONTAL CURVATURE (mm)		600	600	600
DRIVE		CATERPILLAR TYPE		
TAKE-UP		WEIGHT TYPE		
RAIL		75(I)X75X5(t)	100(I)X75X5(t)	150(I)X75X5.5(t)
MAX SPEED		15m/min		

BANDO Chain No.	P	A	B	C	D	E	F
TR - 348	76.2	138	80	16	13.5	6.3	122
TR - 458	101.6	183	73	27	14.3	9.0	137
TR - 678	152.4	252	73	32	16.3	18	183

CALCULATION FOR TROLLEY CONVEYOR

TR trolley conveyor chain tension calculation

$T=L \cdot f' \cdot Wa + Wb \text{ (D1-D2)}$

T= Chain Tension

L= The total length of the line (m)

Wa = Average unit load (kg/m)

Wb = Actual line unit load (kg/m)

D1 = Maximum height of actual line (m)

D2 = Minimum height of actual line (m)

f' = Coefficient of travel resistance

AVERAGE FULL-LINE-RUNNING RESISTANCE FACTOR : f'

CONVEYOR SIZE	3"			4"		
	# 1 0° ~ 120°C	# 2 120° ~ 160°C	# 3 160° ~ 200°C	# 1 0° ~ 120°C	# 2 120° ~ 160°C	# 3 160° ~ 200°C
TEMPERATURE						
TURN No.						
n = 5	0.024	0.033	0.045	0.017	0.024	0.032
n = 10	0.026	0.038	0.055	0.019	0.028	0.039
n = 15	0.028	0.045	0.069	0.020	0.033	0.049
n = 25	0.031	0.053	0.087	0.022	0.039	0.062
n = 25	0.034	0.063	0.111	0.024	0.047	0.079
n = 30	0.038	0.075	0.143	0.027	0.056	0.102
μs	0.021	0.027	0.035	0.015	0.020	0.025
k	1.035	1.060	1.080	1.035	1.060	1.080

$f' = \frac{\mu s \cdot k(k^n-1)}{n(k-1)}$

f' : Average coefficient of travel resistance on the entire line
μs: Coefficient of travel resistance on straight line segment
k : Turn-average coefficient if increase

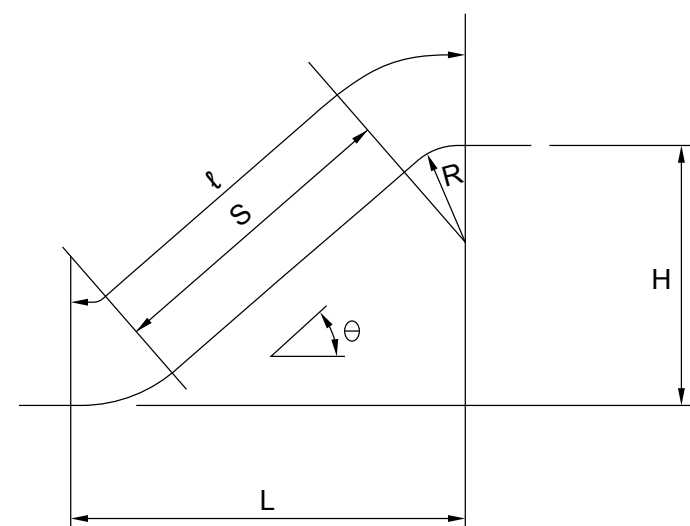
n= Number of turns
90° Horizontal curve turn n=1
180° Horizontal curve turn n=2
Vertical curve n=2

Calculate the required motor output

$KW \cong \frac{T \times V}{6120 \times 3} \times K$

T = Chain tension (kfg)	V = Height speed of conveyor (m/min)	K = Coefficient of starting (1.3)	η = Modulus of machine (0.26)
$\eta(0.62) = 0.95 \times 0.75 \times 0.97 \times 0.9$			
(caterpillar) (worm- reducer) (roller c hain) (cyclo reducer)			

HORIZONTAL & VERTICAL CURVES TOTAL LENGTH



$$L = \left(\frac{1}{\tan \theta} \cdot H \right) + 2 \{ \tan (\theta / 2) R \}$$

$$S = \left(\frac{1}{\tan \theta} \cdot H \right) - 2 \{ \tan (\theta / 2) R \}$$

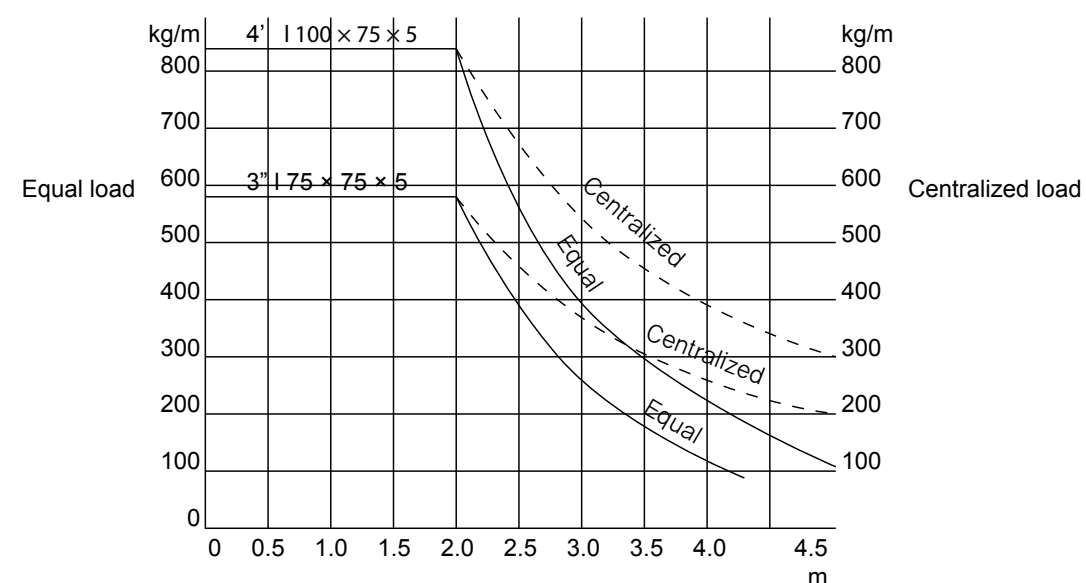
$$l = S + \frac{R \cdot \theta \cdot \pi}{\tan \theta}$$

HANGING SUPPORT DISTANCE

Centralized load : In case of the pitch of the goods is upper 1/2 than the support pitch.

Equal load : In case of the pitch of the goods is lower 1/3 than the support pitch.

However, this graph is based on the weight of the conveyor. Please calculate only the weight of goods and hanger

CONVEYOR CHAIN
FOR SPECIAL USE

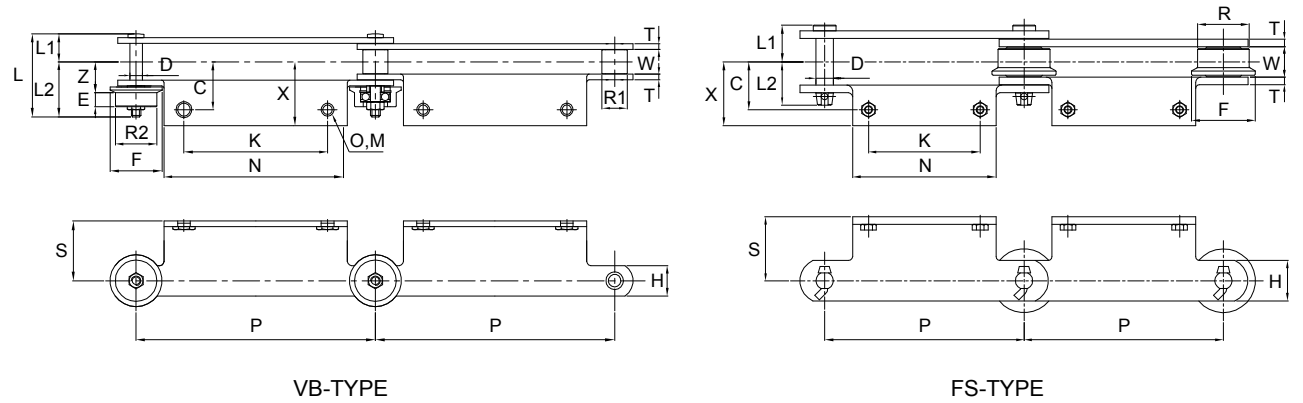
- Automobile (Assemble)
- Automobile (Painting)
- Butchery Facilities
- Cement
- Incineration & Recycling
- Powder transfer
- Parking tower & Escalator
- Sterilizer & Bottle washer



CONVEYOR CHAIN FOR AUTOMOBILE ASSEMBLY LINE



Typically, two or more rows of slat are attached to the conveyor chain. These conveyor chains are used mainly to transport the body of the car, for car assembly, test lines, showers, etc. Two types of rollers are available; center mounted (F-roller) type, and side rollers. Water-resistant coating and special material selection are possible in accordance with the working environments. In particular, by mounting bearings to the F-roller, or by selecting special plastic, the surging phenomenon can be prevented, and noise and the overall weight are reduced.

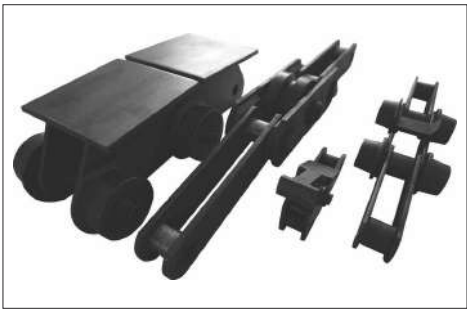


VB-TYPE																					(Unit: mm)		
BANDO Chain No.	AVG. ULTIMATE STRENGTH (kgf)	PITCH P	INNER WIDTH W	ROLLER			PIN						LINK PLATE		ATTACHEMENT								APPROX. WEIGHT (Kg/m)
				R1	R2	F	D	L	L1	L2	E	Z	T	H	S	C	X	N	K	O	M		
BD13150VB	15000	150	31.3	31.8	52	65	15.9	111	36.45	74.55	20	36.1	6.3 (7)	38.1	75	60	82	90	60	12	M10	13	
BD13200VB		200																140	80			12.1	
BD13250VB		250																190	140			11.5	
BD13300VB		300																230	180			10.9	
BD20200VB	24000	200	40	40.1	68	84	21	132.3	43.8	88.5	25	49.3	9.5 (9)	50.8	80	60	82	120	80	12	M10	18.6	
BD20250VB		250																180	140			18.5	
BD20300VB		300																230	180			17.8	

FS-TYPE																		(Unit: mm)	
BANDO Chain No.	AVG. ULTIMATE STRENGTH (kgf)	PITCH P	INNER WIDTH W	ROLLER		PIN			LINK PLATE		ATTACHEMENT								APPROX. WEIGHT (Kg/m)
				F	R	D	L1	L2	T	H	S	C	X	N	K	O	M		
BD13150FS	15,000	150	31.3	65	50.8	15.9	35.25	42.65	6.3 (7)	38.1	75	60	82	90	60	12	M10	11.7	
BD13200FS		200												140	80			11.1	
BD13250FS		250												190	140			10.7	
BD13300FS		300												230	180			10.3	
BD20200FS	24,000	200	40	80	65	21	43.6	53.1	9.5 (9)	50.8	80	60	82	120	80	12	M10	15.6	
BD20250FS		250												180	140			16	
BD20300FS		300												230	180			15.8	

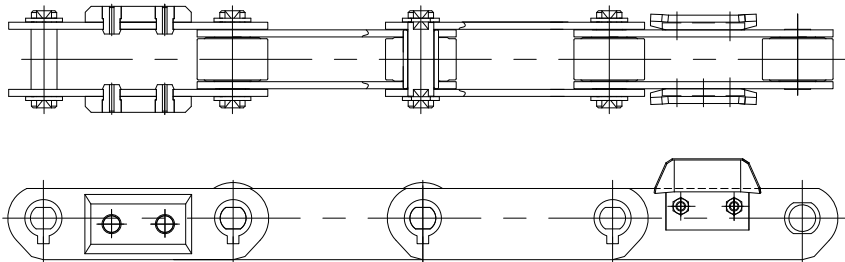


CONVEYOR CHAIN FOR AUTOMOBILE PAINTING LINE

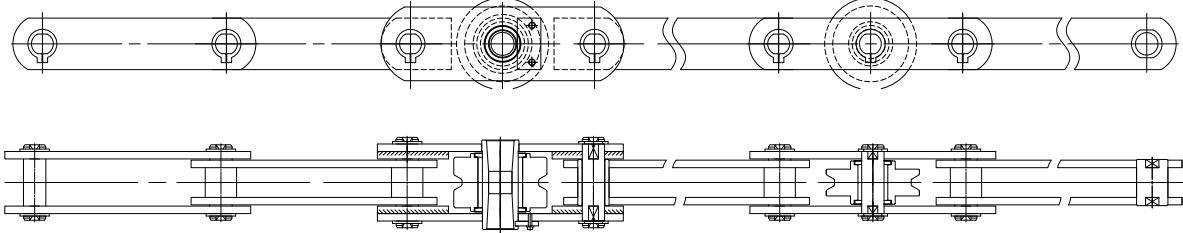


Mainly used in car painting and general assembly lines and equipped with excellent impact, corrosion and abrasion resistance. A variety of attachments and treatments are available depending on the application.

TYPE 1



TYPE 2



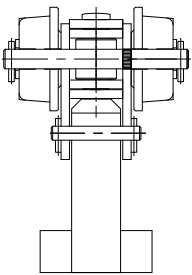
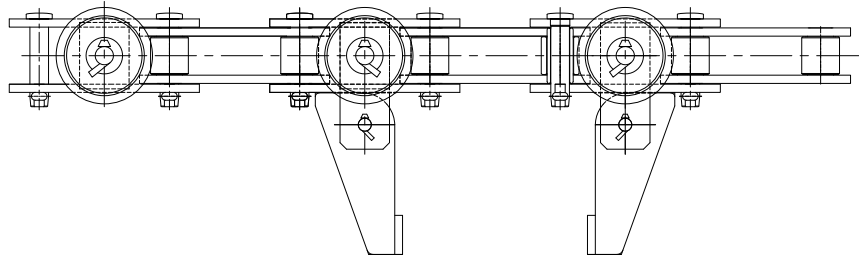


CONVEYOR CHAIN FOR BUTCHERY

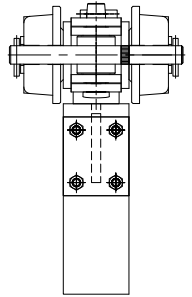
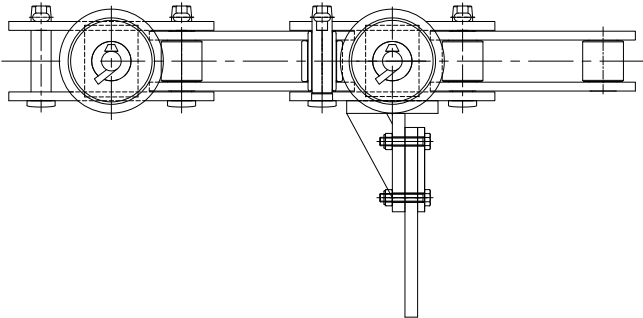
Chains for butchery facilities are equipped with similar functions to that of a trolley conveyor chain, and have similar properties such as galvanized steel for corrosion environment. Modern butchery facilities have a need for down, left and right rotation of their chains.



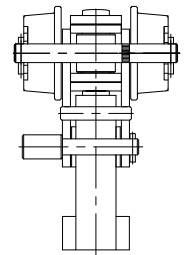
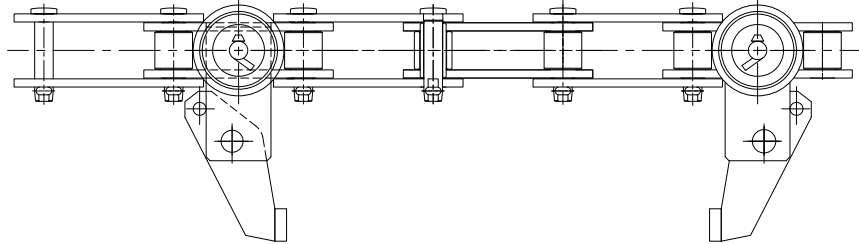
TYPE 1



TYPE 2



TYPE 3

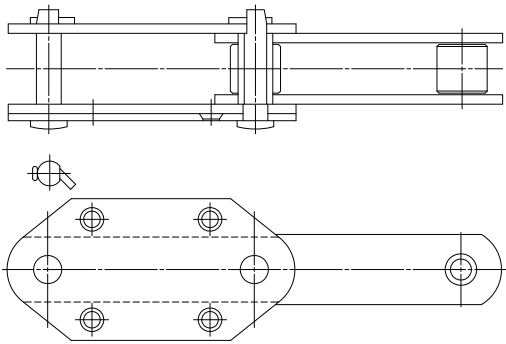




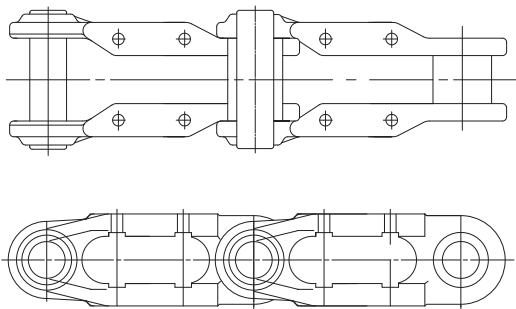
CONVEYOR CHAIN FOR CEMENT



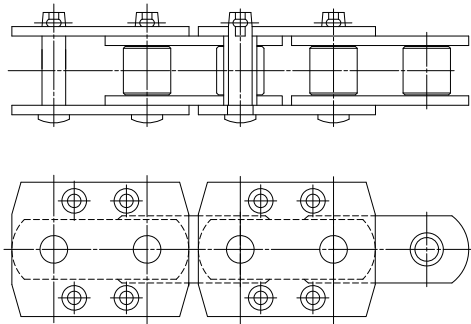
The chain conveyor systems used to automate the cement industry are specific to the characteristics and operating conditions of each process; in particular, corrosion resistance and abrasion resistance are improved to withstand high speed operation and the corrosive nature of the transported materials.



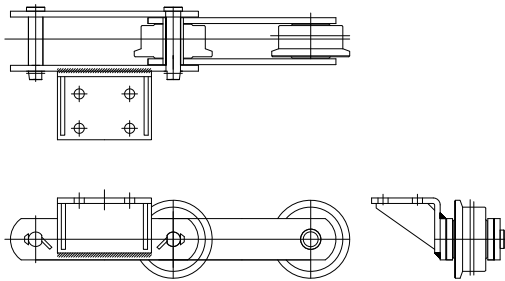
TYPE 1



TYPE 2



TYPE 3



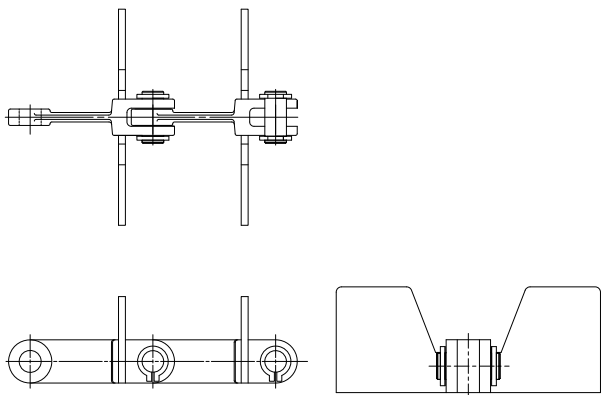
TYPE 4



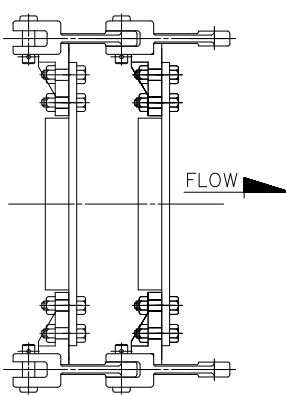
CONVEYOR CHAIN FOR INCINERATION PLANT & RECYCLING SYSTEM



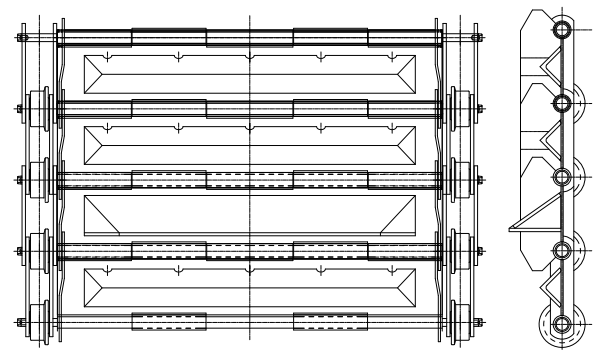
Used to automate the processes of various waste disposal and waste incineration plants, such as the sorting of waste, cleaning, burning, ash etc. These chains are tailor-made to suit various working conditions.



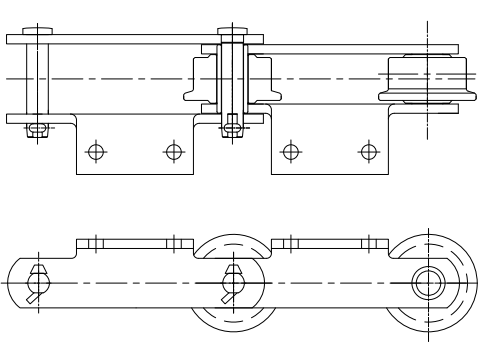
TYPE 1



TYPE 2



TYPE 3



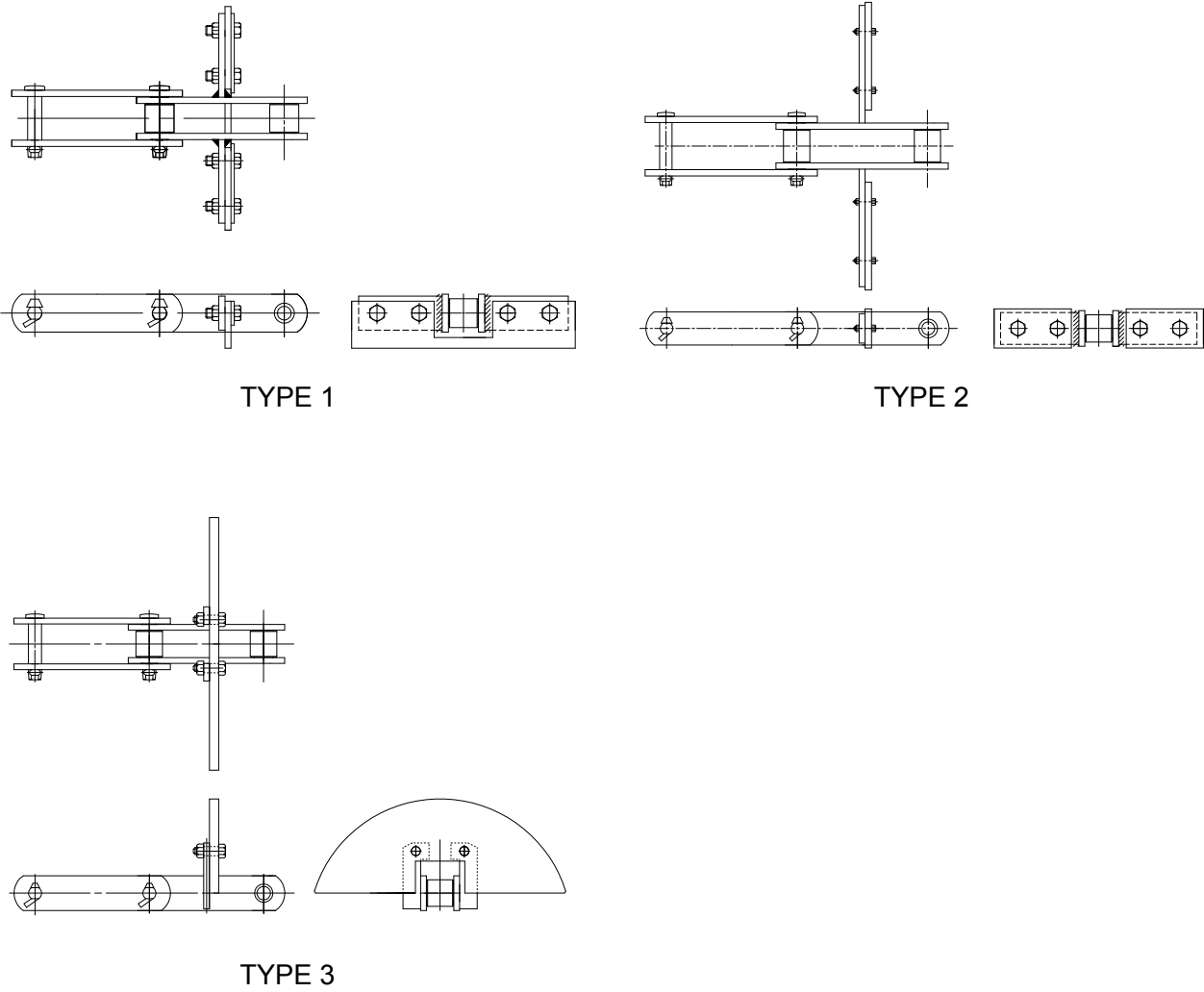
TYPE 4



CONVEYOR CHAIN FOR POWDER TRANSTER



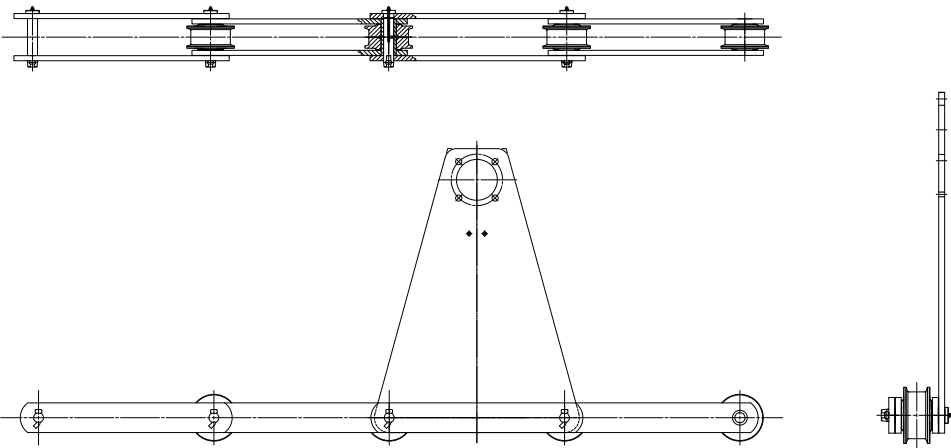
These chains are used in rice processing, milling, automated conveyor system of sugar production, and transferring substances within a case in order to prevent loss. Special attachments are designed and used for all of the aforementioned materials as well as residues.





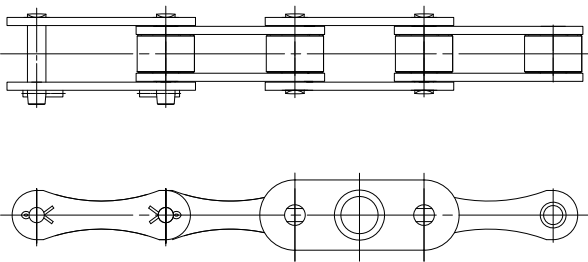
CONVEYOR CHAIN FOR PARKING TOWER & ESCARLATOR PARKING STRUCTURE

Chains can be custom designed to match the specific dimensions of the parking structure so please contact us.



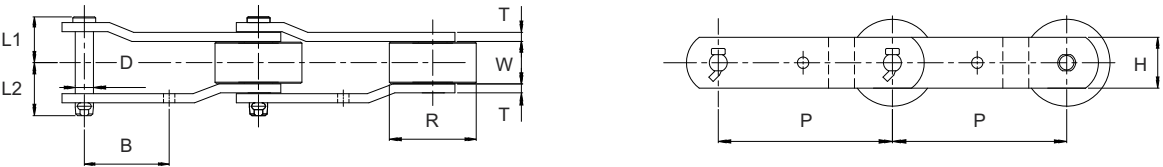
ESCALATOR CHAIN

Precise machine production is especially paramount when chains are going to be transporting people, such as in department store escalators, malls, subway stations etc.



CONVEYOR CHAIN FOR STERIZER & BOTTLE CLEANING SYSTEM

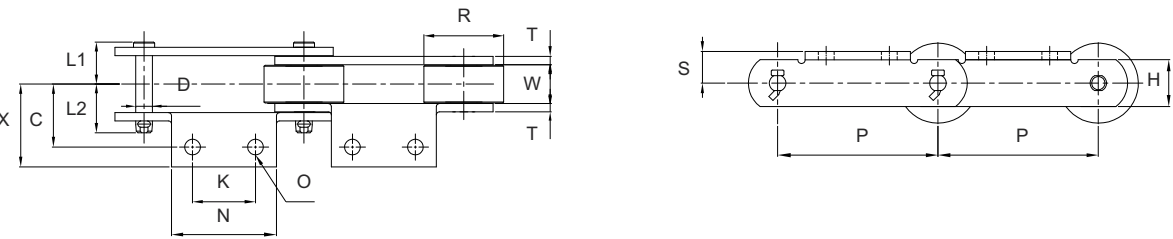
Manufactured using 13Cr chrome stainless steel, these are excellent abrasion and corrosion-resistant chains and are commonly used in the disinfection and sterilization processes of beer and soft drink bottling plants.



A. PASTEURIZER ROLLER CHAIN

(Unit: mm)

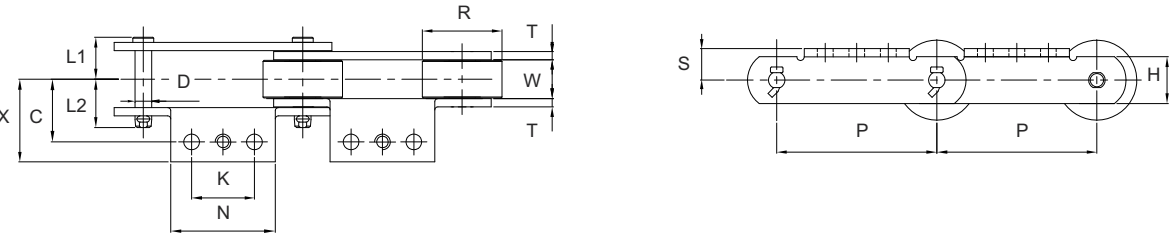
BANDO Chain No.	PITCH P	INNER WIDTH W	ROLLER OUTER DIA. R	PIN			T	H	B	O	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
				D	L1	L2						
P4" - R	101.6	24	63.5	14	34.6	35.4	8	38	51	10.6	6.6	19,000



B. #1 BOTTLE WASHER BASKET CHAIN

(Unit: mm)

BANDO Chain No.	PITCH P	INNER WIDTH W	ROLLER OUTER DIA. R	PIN			T	H	S	K	N	C	X	O	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
				D	L1	L2										
P180 - R	180	35	80	20	39.1	42.6	8	50	30	65	100	50	66	M12	18.8	24,000



C. #2 BOTTLE WASHER BASKET CHAIN

(Unit: mm)

BANDO Chain No.	PITCH P	INNER WIDTH W	ROLLER OUTER DIA. R	PIN			T	H	S	K	N	C	X	O	O1	APPROX. WEIGHT (kg/m)	AVG. ULTIMATE STRENGTH (kgf)
				D	L1	L2											
P140 - R	140	40.5	80	20	41.85	45.35	8	50	25	50	75	69.5	84.5	11.5	M16	23.9	24,000

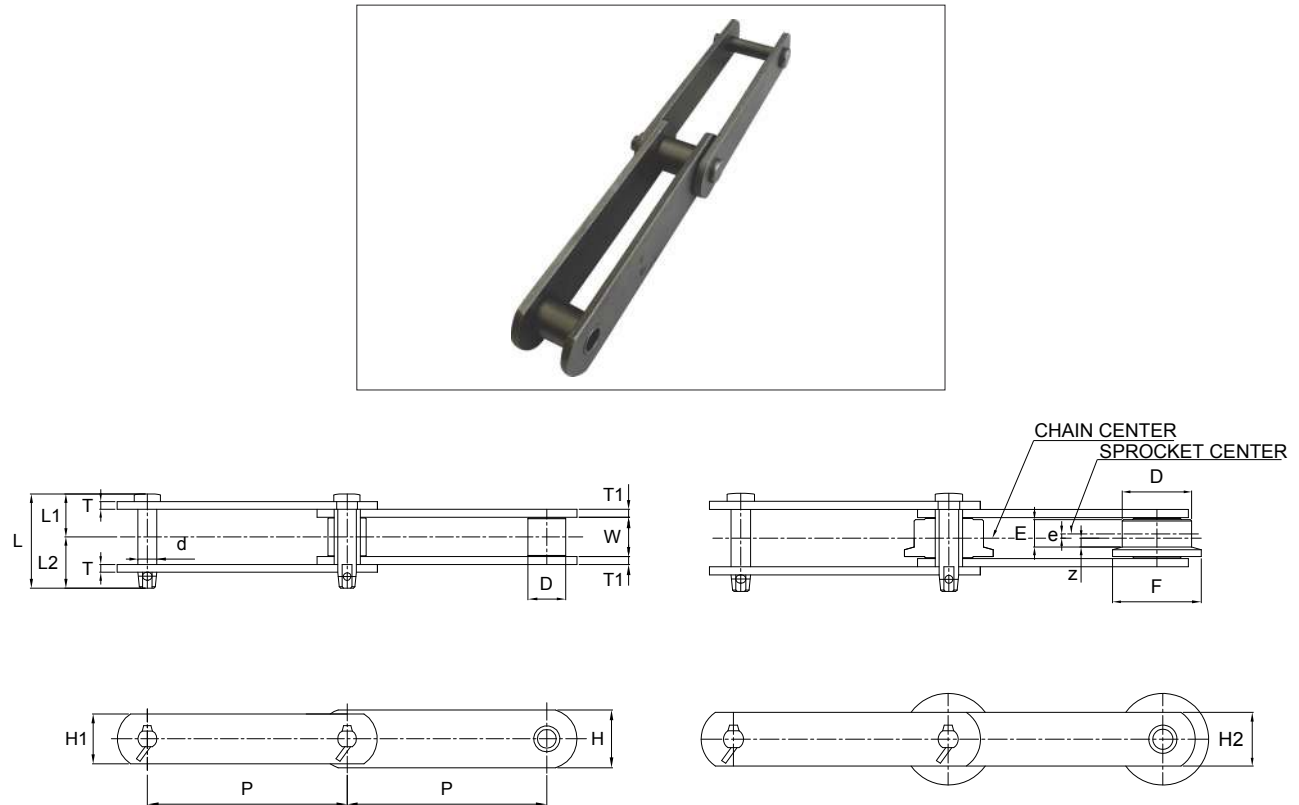
CONVEYOR CHAIN & SPROCKET FOR WATER TREATMENT

- BSC type chain & Sprocket
- BACS type chain & Sprocket
- BJAC type chain & Sprocket
- BDF type drive chain
- BWC type chain
- BD400-C type chain
- BDH-C type chain
- BD700-C type chain
- BD700-CB type chain



BSC TYPE CHAIN & SPROCKET

BSC type chains are mainly used for grit remover, grit washing system, fine water screen in wastewater treatment. It is comprised of 13Cr stainless steel components for outstandingly abrasion-resistant and corrosion-resistant for toxic environment.



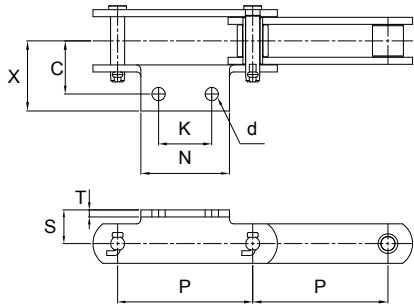
(Unit: mm)

BANDO Chain No.	PITCH P	AVG. ULTIMATE STRENGTH (kgf)	WEIGHT (kg/m)			DIMENSION																			
			ROLLER			ROLLER DIA. D							INNER WIDTH	PIN DIA.		PIN LENGTH				LINK PLATE					
			B	S	F	B	S	F					W	d	L	L1	L2	H1	T1	H	T	H2			
					D	F	e	Z	E																
BSC15215	152.4	15,000	4.2	6	8	24	25.4	50.8	65	3	7	20	30.2	11.1	69	31	38	38		38	6.3(6)	38			
BSC15219		19,000	5.8	6.6	8	26	29	50.8	65	3	7	20	30	14.3	71.9	32.7	39.2	38		38	6.3(6)	38			
BSC15228		28,000 (25,000)	6.9	9.3	13	29	34.9	57.2	70	3.5	9	24	37.1	15.9	86.4	39.95	46.5	44.5		44.5	7.9(8)	44.5			
BSC15235		38,000 (35,000)	10.3	12.6	18.1	36	40.1	70	85	4	8.5	25	37.1	19.05	96.8	44.15	52.65	(54)	(7)	(60)	9.5(10)	50.8			

※ Indicated in parentheses are stainless steel.

BSC TYPE A2 ATT

Use for fixed rate water screen.
(Grit remover, grit collector)



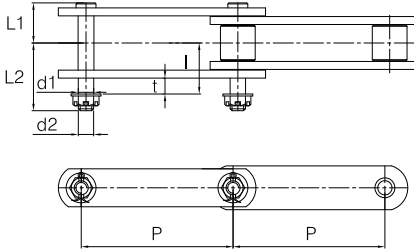
(Unit: mm)

BANDO Chain No.	PITCH	DIMENSION							ADDITIONAL WEIGHT (kg/pc)
	P	C	X	K	N	S	d	T	
BSC15215	152.4	50	66	60	90	32	14	6.3(6)	0.25
BSC15219		50	66	60	90	32	14	6.3(6)	0.25
BSC15228		60	81	60	100	38	15	7.9(8)	0.4
BSC15235		65	90	60	100	45	15	9.5(7)	0.55(0.39)

※ Indicated in parentheses are stainless steel.

BSC TYPE D22 ATT

Used with bucket attachment.
(Sledge and/or grit collector)



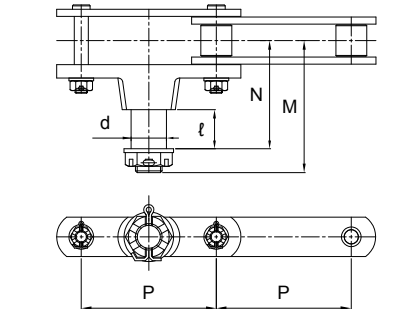
(Unit: mm)

BANDO Chain No.	DIMENSION					ADDITIONAL WEIGHT (kg/pc)
	L1	L2	d1	l	t	
BSC15215	29	51	10	37	12	0.11
BSC15219	32.8 (32)	59 (58)	13.5	44.3	16	0.12
BSC15228	40	68	15.5	51.1	16	0.13
BSC15235	44.5 (40)	74 (72)	18.0	54.4(53)	16(19)	0.19

※ Indicated in parentheses are stainless steel.

BSC TYPE T1 ATT

Used for rotating-rake water screen.
(Fine, course water screens)



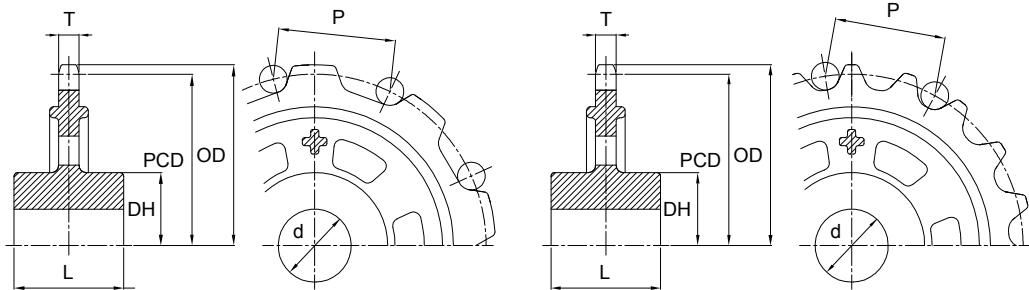
(Unit: mm)

BANDO Chain No.	PITCH	DIMENSION				ADDITIONAL WEIGHT (kg/pc)
	P	M	N	d	ℓ	
BSC15215	152.4	108	80	25	30	1.2
BSC15219		108	85	30	35	1.4
BSC15228		149	122	40	44	2.8
BSC15235		151	124	40	44	3.4

SPROCKET FOR BSC TYPE CHAIN



Use for sewage treatment conveyor chain.

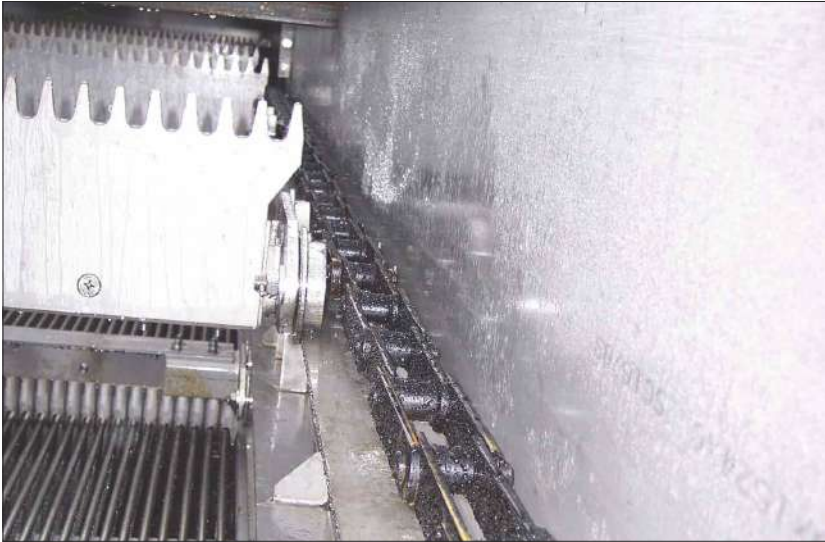


A

B

(Unit: mm)

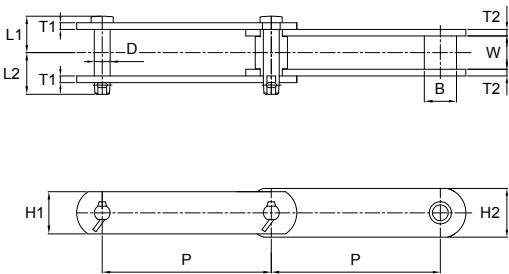
BANDO Chain No.	TEETH NO.	PITCH DIA.	OUTTER DIA. O.D			TYPE	STANDARD BORE DIA. d		BOSS		THICKNESS T		WEIGHT (kg)
			B BUSHING	S ROLLER	R.F ROLLER		MIN.	MAX.	BORE DH	LENGTH L	S.R ROLLER	F ROLLER	
	NT	PCD											
BSC15215	9	445.6	462	466	479	C	85	60	135	95	24	16	30
	11	540.9	558	561	575		115	60	180	110			48
	DL21	517	535	540	552		90	60	140	95			34
BSC15228	9	445.6	465	468	481	C C C	120	60	185	120	30	21	37
	11	540.9	560	563	576		115	60	180	120			49
	DL21	517	537	540	552		110	70	170	110			47
BSC15235	9	445.6	467	471	486	C C C	120	70	185	140	30	21	47
	11(A)	540.9	562	566	582		115	70	180	140			57
	DL21(A)	517	540	544	556		110	70	170	110			50
BSC15235	11(B)	540.9	566	570	590	C C	120	80	190	120	30	21	56
	DL21(B)	517	544	548	564		125	80	195	125			57



BACS TYPE CHAIN & SPROCKET

BACS TYPE CHAIN

Comprised of 13Cr stainless steel components to provide outstanding abrasion-resistance and corrosion-resistance (to guard against sewage etc.)

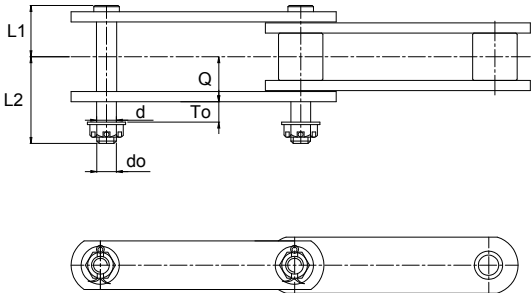


(Unit: mm)

BANDO Chain No.	AVG. ULTIMATE STRENGTH (kgf)	PITCH P	BUSH DIA. B	W	PIN			PIN LINK PLATE		BUSH LINK PLATE		APPROX. WEIGHT (kg/m)
					D	L1	L2	T1	H1	T2	H2	
BACS13078W	13,500	78.11	23	26	12.7	28	32	6	33	6	36	5.2
BACS13103W		103.2										4.6
BACS13152W		152.4										3.6
BACS15152W	15,000	152.4	24	26	13.5	29	33.5	6	36	6	38	4.8
BACS19152W	19,000	152.4	26	30	14.3	32	39.5	6	38	6	44	5.8
BACS25152W	25,000	152.4	29	30	15.9	35	41	6	44	7	54	7.9
BACS35152W	53,000	152.4	35	38	19.0	41	46	7	54	7	60	10.9

BACS TYPE D22 ATT CHAIN

Used for bucket attachment to lift the sediments and very simple to assemble.

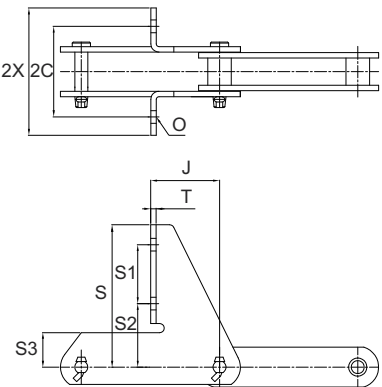


(Unit: mm)

BANDO Chain No.	ATTACHMENT						ADDITIONAL WEIGHT (kg/pc)
	d	do	L1	L2	Q	To	
BACS13078W BACS13103W	12	M10	28	49	24	12	0.06 0.06
BACS15152W	13	M12	29	51	25	12	0.10
BACS19152W	14	M12	32	59	28	16	0.11
BACS25152W	15.5	M14	35	62	29	16	0.14
BACS35152W	18.5	M16	41	72	34.2	19	0.20

SF-4 ATTACHMENT

Used for sediment collector and remover.

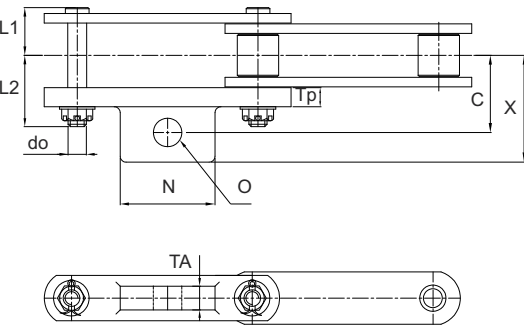


(Unit: mm)

BANDO Chain No.	ATTACHMENT									ADDITIONAL WEIGHT (kg/pc)
	2C	2X	J	S	S1	S2	S3	O	T	
BACS13078W	90	131.5	38	110	35	55	28	14	6	0.6
BACS13103W			52							0.7
BACS13152W			76							1.0
BACS15152W	100	143.5	76	155	65	70	35	14	6	1.2
BACS19152W	100	141.5	76	157	65	70	38	14	6	1.4
BACS25152W	100	143.5	76	154	65	70	38	14	6	1.4
BACS35152W	110	152.0	76	160	65	75	40	14	7	1.6

LA -1 ATTACHMENT

The bucket is attached to elevate wet sand. Because the bucket is supported by a pin connection, it does not work with excessive load on the chain.t

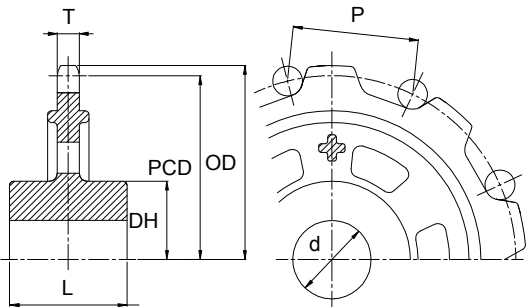


(Unit: mm)

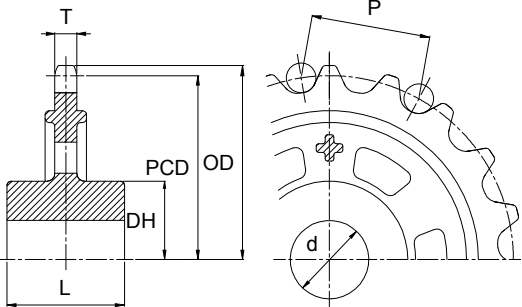
BANDO Chain No.	ATTACHMENT									ADDITIONAL WEIGHT (kg/pc)
	do	L1	L2	C	X	N	O	TA	Tp	
BACS13078W	M10	29.5	41.5	55	77	40	19	16	12	0.4
BACS13103W						56				0.6
BACS15152W	M12	30.5	44.5	55	77	68	19	16	12	0.8
BACS19152W	M12	33.5	51.5	65	90	80	24	20	16	1.2
BACS25152W	M14	36.5	53.5	65	90	80	24	20	16	1.4
BACS35152W	M16	42.5	61.5	75	102	80	26	24	19	2.0

BACS INTEGRAL TYPE SPROCKET

Ductile cast iron, hardened tooth tips(First tooth hardening)



C TYPE



DC TYPE

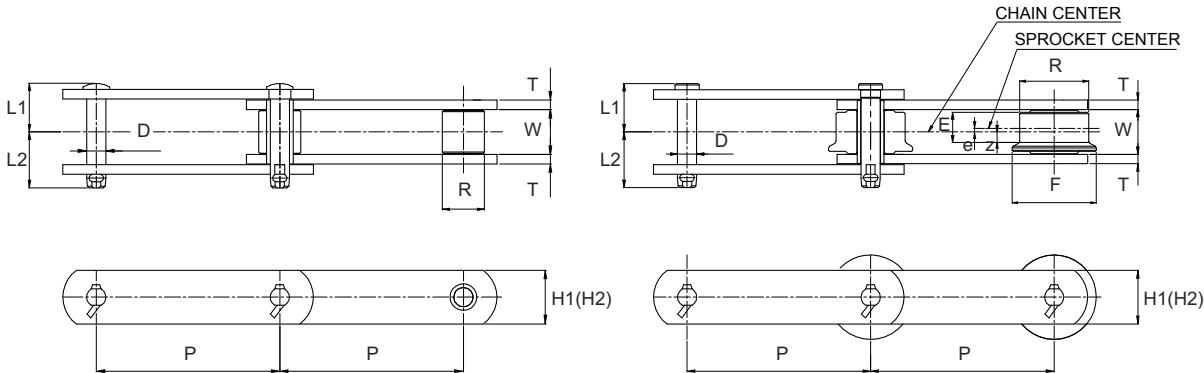
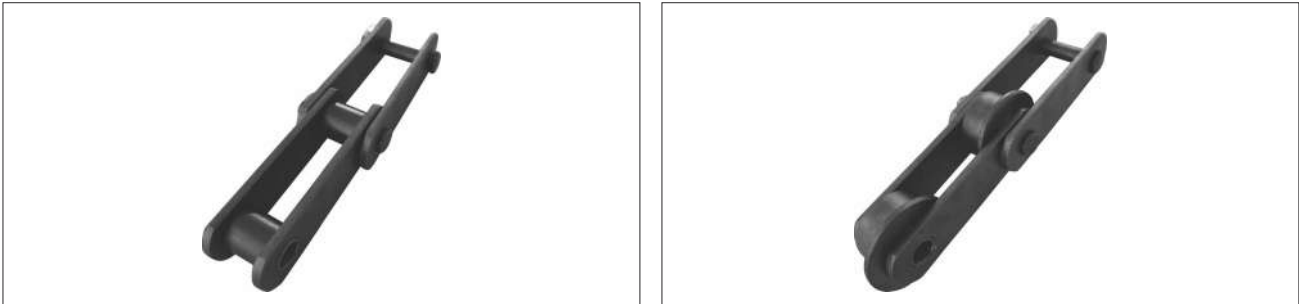
(Unit: mm)

BANDO Chain No.	TYPE	PITCH P	TEETH No.	DIA. OD	PITCH DIA. PCD	BORE DIA. d		BOSS DIA. DH	BOSS LENGTH L	TEETH THICKNESS T	APPROX. WEIGHT (kg/m)
						MIN.	MAX.				
BACS13078W	C	78.11	9	250	228.4	60	90	140	110	22	15
	C		11	300	277.3						19
	C		13	350	326.4						22
BACS13103W	C	103.2	9	325	301.7	60	90	140	110	22	21
	C		11	390	366.3						23
	C		13	455	431.2						28
BACS15152W	C	152.4	9	470	445.6	70	110	170	130	22	38
	DC		10.5	540	517.0						40
	C		11	565	540.9						44
BACS19152W	DC	152.4	10.5	545	517.0	90	130	200	140	25	52
	SPLIT		10.5	545	517.0						61
	C		11	565	540.9						55
	DC		11.5	590	564.9						56
	SPLIT		11.5	590	564.9						66
BACS25152W	DC	152.4	10.5	545	517.0	90	130	200	140	25	54
	C		11	570	540.9						57
	DC		11.5	595	564.9						58
BACS35152W	DC	152.4	10.5	550	517.0	90	130	200	140	32	59
	C		11	575	540.9						64
	DC		11.5	600	564.9						64

※ Available out of this chart.



BJAC TYPE CHAIN & SPROCKET



S-ROLLER

F-ROLLER

(Unit: mm)

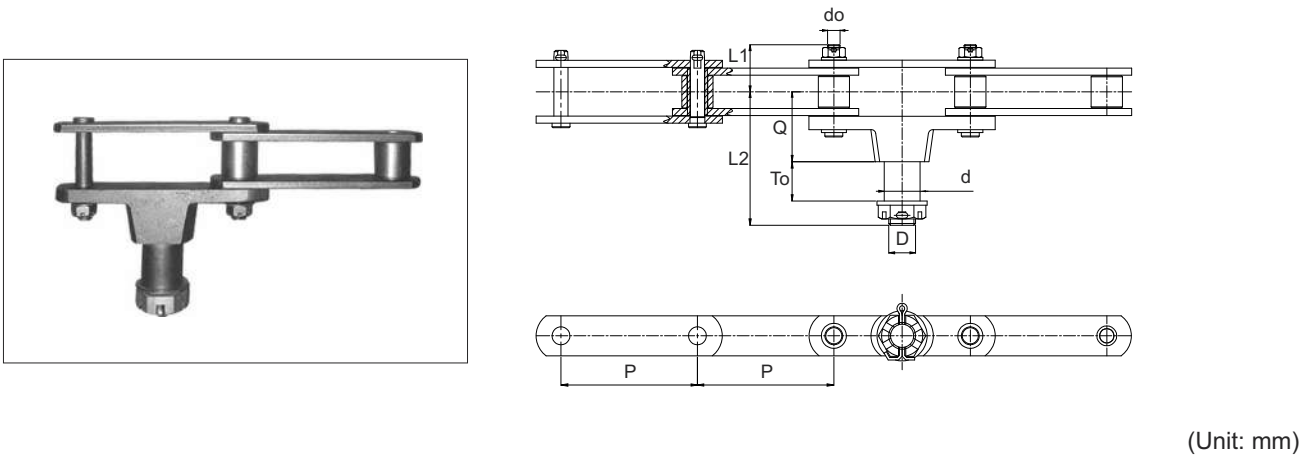
BANDO Chain No.	AVG. ULTIMATE STRENGTH (kgf)			DIMENSION								WEIGHT (kg/m)
	ALLOY	STAINLESS 300	STAINLESS 400	INNER WIDTH W	S ROLLER	PIN			LINK PLATE			
					R	D	L1	L2	H1	H2	T	S ROLLER
BJAC08152H	15,000			26.2	22.2	11.1	31	34.5	28.6	28.6	6.3	3.9
BJAC10152H	22,000			29	29	14.3	33	36	38.1	38.1	6.3	5.9
BJAC6205H	28,000			35.9	34.9	15.9	40.5	43	44.5	44.5	7.9	9.3
BJAC21152H	39,000			35.7	40.1	19.05	44.5	51	50.8	50.8	9.5	12.6
BJAC26152H	52,000			55.6	44.5	22.2	55.5	61	63.5	63.5	9.5	17.8
BJAC08152		7,000	14,500	27	22.2	11.1	31	34.5	38	38	6	3.8
BJAC10152		11,000	17,000(19,000)	30	29	14.3	33	36	38	44	6	5.6
BJAC6205		13,500	24,000(27,000)	37.1	34.9	15.9	39.5	42	44.5	54	7	8.2
BJAC21152		19,000	36,000	37.1	40.1	19.05	44	50	54	54	9	12.8
BJAC26152		25,500	50,000	55.2	44.5	22.2	56	61.5	63.5	63.5	10	18.6

(Unit: mm)

BANDO Chain No.	DIMENSION					WEIGHT (kg/m)
	F ROLLER					
	R	F	E	e	Z	
BJAC10152/H	50.8	65	20	3	7	80
BJAC6205/H	65	85	24	4	8	14.5

- These chains boast more robust specifications which have improved strength and abrasion resistance as 400 Series stainless steel + alloy steel are mixed, increasing the breaking strength.
- If the chain comes into contact with shellfish and/or seaweed, be sure to run every 2-3 weeks minimum.

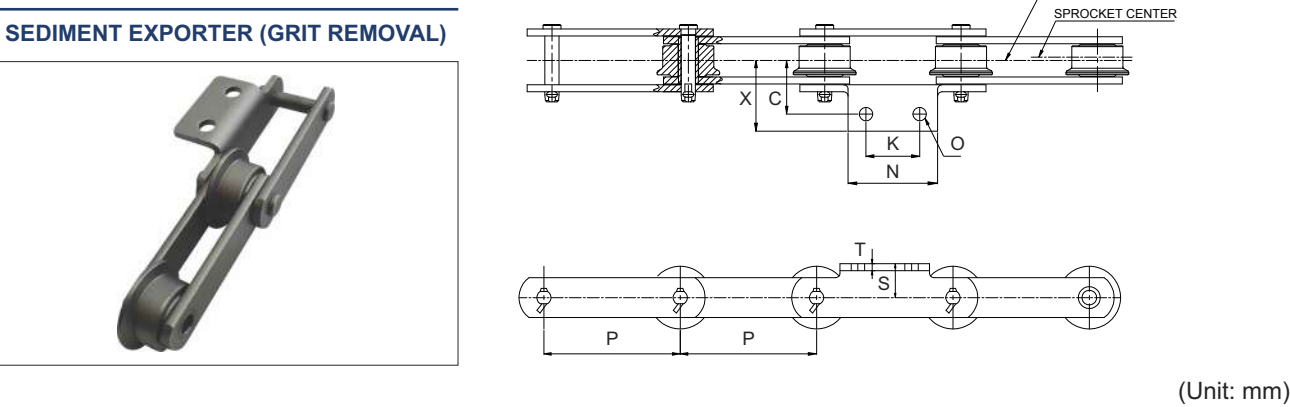
Y ATTACHMENT (FOR ROTATING-RAKE WATER SCREEN)



BANDO Chain No.	ATTACHMENT							ADDITIONAL WEIGHT (kg/set)
	d	do	D	L1	L2	Q	To	
BJAC08152	25	M10	M20	38	120	60	30	1.1
BJAC10152	35	M12	M27	42	148.5	70	40	1.9
BJAC6205	40	M12	M30	49	164.5	78	44	2.7
BJAC21152	45	M16	M36	55	174	78	46	3.2
BJAC26152	50	M16	M45	65	204	95	50	5.1

(Unit: mm)

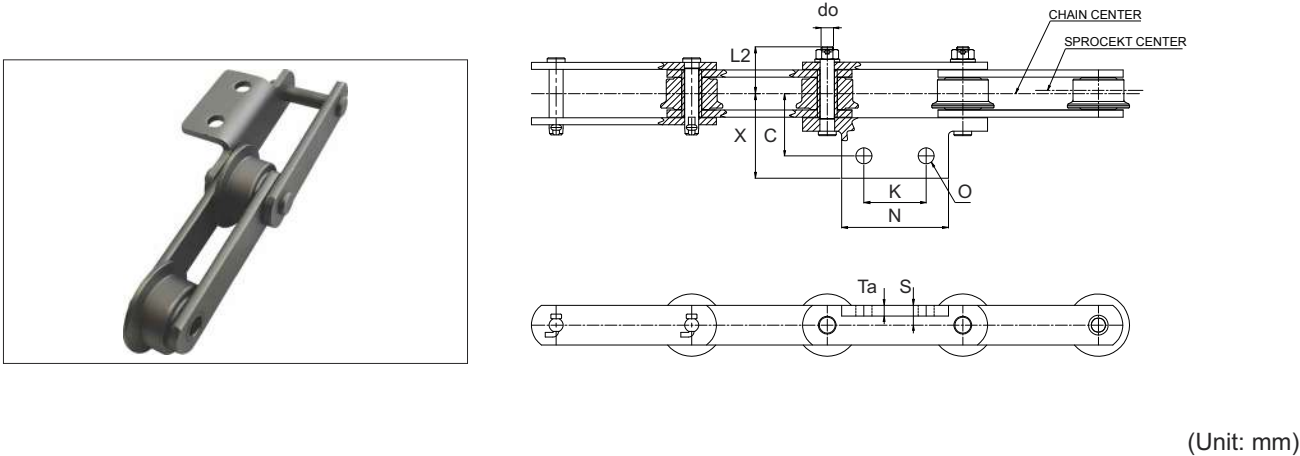
A-2 ATTACHMENT (B TYPE)



BANDO Chain No.	ATTACHMENT									ADDITIONAL WEIGHT (kg/set)
	C	X	K	N	S	O	T			
							ALLOY	STAINLESS 300	STAINLESS 400	
BJAC10152F	50	65	60	90	32	12	6.3	6	6	0.20
BJAC6205F	60	79	60	100	38	15	7.9	8	8	0.37

A-2 ATTACHMENT (C TYPE)

A-2 ATTACHMENT (FOR FIXED RAKE WATER SCREEN)



BANDO Chain No.	ATTACHMENT									ADDITIONAL WEIGHT (kg/set)
	do	L2	C	X	K	N	S	O	Ta	
BJAC10152	M12	42	60	80	65	110	19.0	15	9.5	0.6
BJAC6205	M12	49	70	95	70	120	22.2	18	12.0	0.9

(Unit: mm)

SEDIMENT EXPORTER (GRIT REMOVAL)

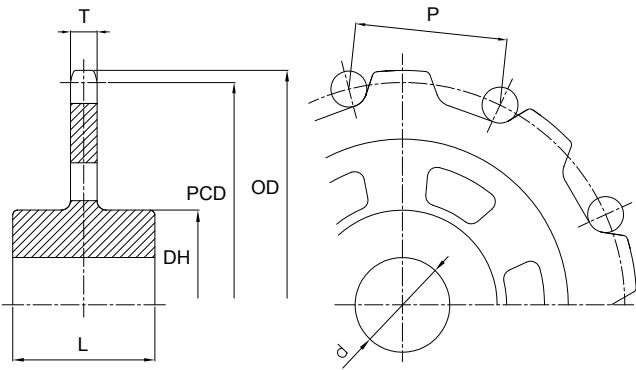
BANDO Chain No.	AVG. ULTIMATE STRENGTH (kgf)	PITCH P	W	F ROLLER					PIN			LINK PLATE		ADDITIONAL WEIGHT (kg/set)
				R	F	E	E1	Z	D	L1	L2	H	T	
BJAC10152F	17,000 (19,000)	152.4	36.2	50.8	65	20	26	10	14.3	36.5	39.5	38 (44)	6 (6.3)	8.3
BJAC6205F	24,000 (27,000)	152.4	44.5	65	85	24	32	12	15.9	43	45.5	44.5 (54)	8	14.4

(Unit: mm)

BANDO Chain No.	ATTACHMENT									ADDITIONAL WEIGHT (kg/set)
	do	L3	C	X	K	N	S	O	TL	
BJAC10152F	M12	45	63	83	65	110	19.0	15	9.5	0.6
BJAC6205F	M12	51.5	74	99	70	120	22.2	18	12	0.9

※ Indicate () is high grade specification.
(44)(54) in link plate is for bush link plate. do in case of bush link plate is 38, 44.5

BJAC TYPE



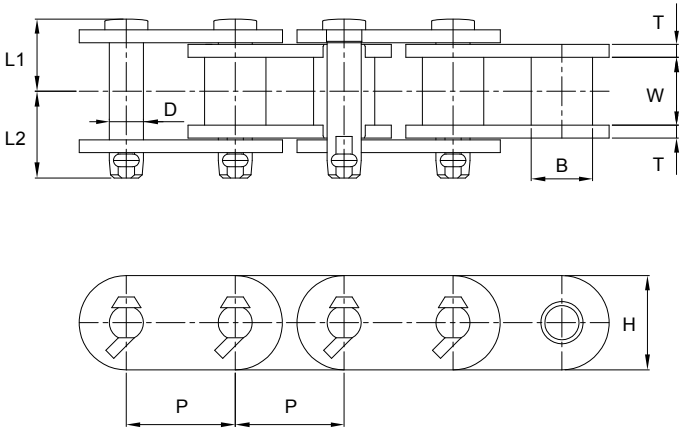
(Unit: mm)

BANDO Chain No.	PITCH P	TEETH No.	OUT DIA. OD	PITCH DIA. PCD	BORE DIA.		BOSS DIA. DH	BOSS LENGTH L	THICKNESS T	ADDITIONAL WEIGHT (kg/set)
					MIN.	MAX.				
BJAC08152S	152.4	9	461	445.6	60	90	140	100	21	28
		10	509	493.2						32
		11	557	540.9	70	110	170	120		42
		12	604	588.8						45
BJAC10152S	152.4	9	466	445.6	70	110	170	120	24	40
		10	514	493.2						43
		11	561	540.9	80	120	180	130		49
		12	609	588.8						53
BJAC10152F	152.4	9	481	445.6	70	110	170	120	16	36
		10	528	493.2						39
		11	576	540.9	80	120	180	130		46
		12	624	588.8						50
BJAC 6205S	152.4	9	470	445.6	80	120	180	130	30	46
		10	518	493.2						50
		11	565	540.9	100	140	220	160		71
		12	613	588.8						75
BJAC 6205F	152.4	9	491	445.6	80	120	180	130	21	43
		10	539	493.2						47
		11	586	540.9	100	140	220	160		65
		12	634	588.8						72
BJAC21152S	152.4	9	474	445.6	100	140	220	160	30	64
		10	521	493.2						68
		11	569	540.9	110	150	230	170		78
		12	617	588.8						82
BJAC26152S	152.4	9	477	455.6	110	150	230	170	48	80
		10	524	493.2						86
		11	572	540.9	120	170	260	190		110
		12	620	588.8						120

BDF TYPE DRIVE CHAIN

BDF TYPE CHAIN(FOR WATER TREATMENT DRIVING CHAIN)

Each part uses 13Cr stainless steel with chromium-based treatment QT (temper) which is very strong and extremely resistant to corrosion and make the Pin's outer diameter is larger to assist in advanced abrasion resistance. Sprockets can be used with for roller chains.



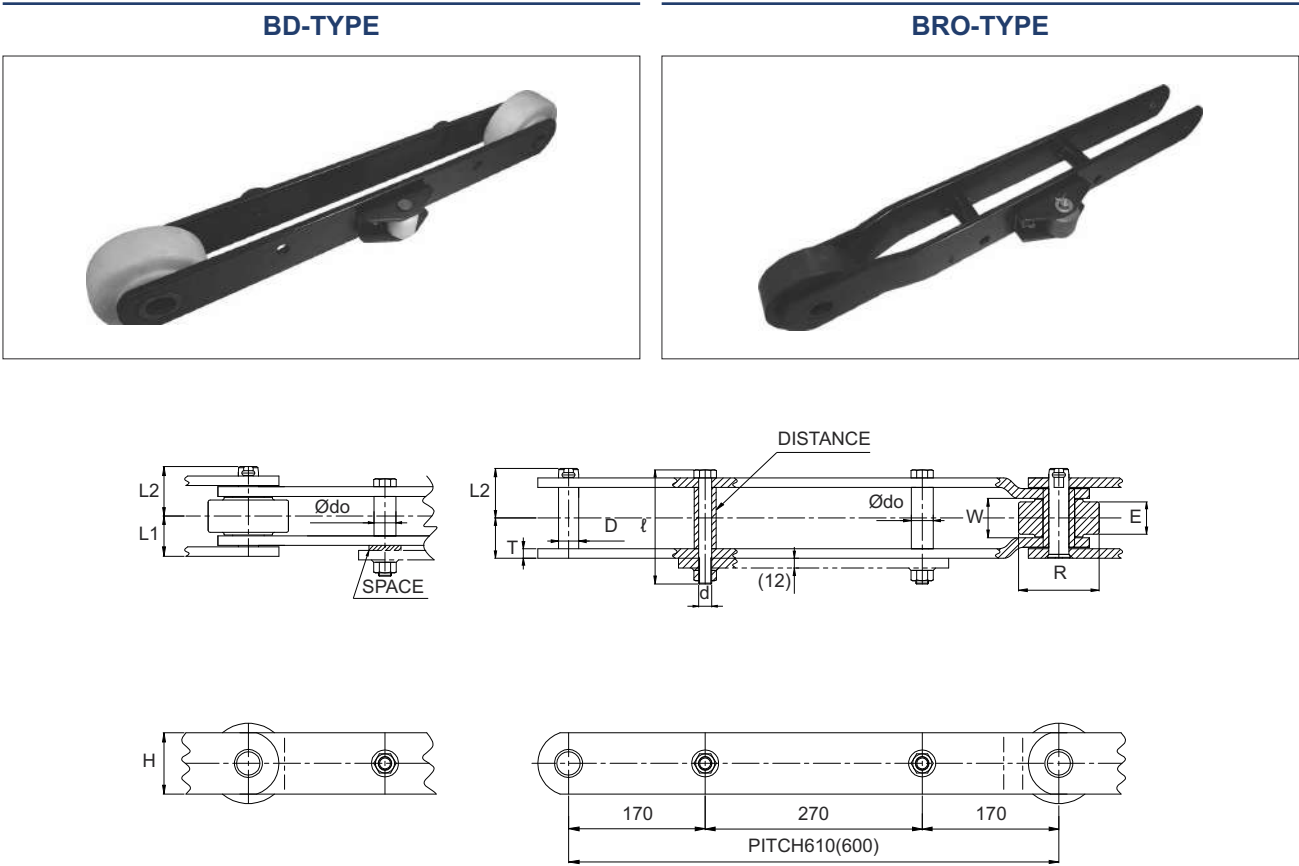
(Unit: mm)

BANDO Chain No.	AVG. ULTIMATE STRENGTH (kgf)	PITCH P	BUSH DIA. B	INNER WIDTH W	LINK PLATE		PIN			APPROX. WEIGHT (kg/m)
					T	H	D	L1	L2	
BDF120	11,000	38.1	22.23	25.4	6	33	12.7	27.5	31.5	6.8
BDF140	14,000	44.45	25.4	25.4	6	38	14.3	29.5	37	9.5
BDF150	14,000	66.27	22.2	30.2	6	38	11.1	32	37	7.6
BDF160	18,500	50.8	28.57	31.7	6	44	15.9	34.5	40.5	10.9
BDF200	31,500	63.5	39.69	38.1	9	54	22.1	45.5	50.5	20.7
BDF240	40,000	76.2	47.62	47.6	10	63.5	25.27	53.5	57.5	27.8



BWC TYPE CHAIN

Thermal power plants, nuclear power plant, steel mills, etc. which use cold water in their automatic smelting process mainly use 13Cr chromium stainless steels. Depending on working conditions. The corrosion and wear resistance required for the friction of air and water is excellent and can be changed depending on the environmental conditions. Such customization exists such as the material of the rollers; special resins, etc. so please contact us for exact specifications.

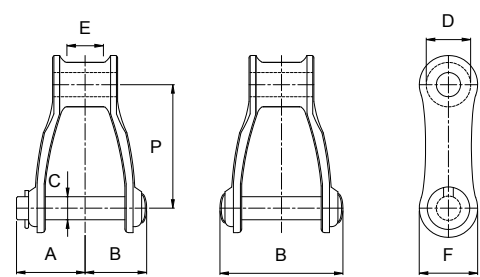


(Unit: mm)

BANDO Chain No.	TYPE	AVG. ULTIMATE STRENGTH (kgf)	ROLLER		INNER WIDTH W	LINK PLATE		PIN			DISTANCE PIECE			APPROX. WEIGHT(kg/m)
			R	E		T	H	D	L1	L2	do	d	ℓ	
BWC25610	BRO	25,000	100	41	50	9.5	63.5	22.2	45.0	57.0	27.2	M16	130	17.0
BWC32610	BRO	32,200	100	41	50	12.7	63.5	26.1	51.5	65.5	27.2	M16	140	20.3
BWC45610	BRO	45,000	100	41	50	12.7	76.2	26.1	51.5	65.5	27.2	M16	145	23.8
BWC55610	BRO	55,000	100	41	50	12.7	76.2	26.1	51.5	65.5	27.2	M16	140	23.8
BWC65610	BRO	65,000	110	41	50	16	76.2	31.8	58.7	76.3	27.2	M20	165	30.0
BWC75610	BRO	75,000	110	60	66.7	16	80	31.8	67.0	84.0	27.2	M20	180	34.0
BWC100610	BD	100,000	120	60	66.7	22	100	35.0	79.0	97.0	27.2	M20	210	53.1
BWC120610	BD	120,000	140	62	70	22	115	40.0	80.7	98.0	27.2	M20	210	64.5
BWC150610	BD	150,000	150	72	80	25	120	44.4	91.5	110.0	38.1	M24	240	80.0

BD400-C TYPE CHAIN

400 CLASS PINTLE CHAIN



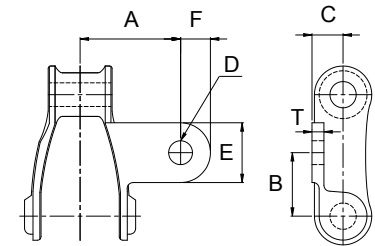
The body is molded integrally with the chain link and barrel part and is assembled by inserting a carbon steel pin. Very durable and widely applicable chain.

The head is cast in order to keep the pin from turning and is fixed to the end portion of the pin for easy assembly/disassembly; if assembly/disassembly is not needed, we can secure (cast) both ends. Standard pintle chains are referred to as 400-Series pintle chains which share the same classification as detachable chains with the same pitch dimensions, therefore they can be used in conjunction with the same sprockets.

(Unit: mm)

BANDO Chain No.	PITCH P	AVG. ULTIMATE STRENGTH (kg)	MAXIMUM OPERATION LOAD(kgf)	WEIGHT (kg/m)	DIMENSION					
					A	B	C	D	E	F
445	41.40	2,700	370	2.23	26.7	23.3	7.9	15.9	18	19.1
452	38.25	3,180	440	3.45	29.5	27.0	9.5	17.5	16	21.4
455	41.40	3,300	480	2.93	29.5	27.0	9.5	15.9	18	21.4
462	41.50	4,000	680	4.65	34.6	31.5	11.1	18.3	21	23.8
477	58.62	4,350	635	3.72	33.2	30.3	11.1	20.6	18	25.4
488B	66.27	6,250	1,020	4.44	39.1	35.5	11.1	22.2	24	23.8
4103B	78.11	12,500	2,000	8.77	46.3	42.2	19.0	31.0	28	38.1
4124	103.20	15,000	2,070	14.30	62.2	56.9	20.6	43.7	32	44.5

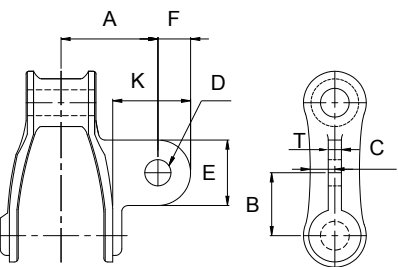
ATTACHMENT



A-1

(Unit: mm)

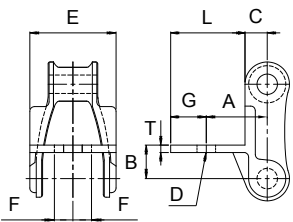
BANDO Chain No.	DIMENSION							WEIGHT (kg/m)
	A	B	C	D	E	F	T	
455	29.4	19.1	9.5	6.4	22.2	11.1	4.8	2.7



A-22

(Unit: mm)

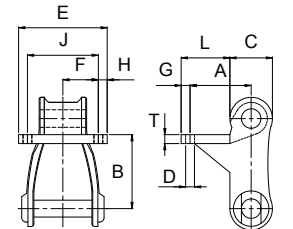
BANDO Chain No.	DIMENSION								WEIGHT (kg/m)
	A	B	C	D	E	F	K	T	
477	38.1	28.6	3.2	7.9	22.2	9.5	31	6.4	3.7
488	36.5	33.3	3.2	9.5	28.6	11.1	19.8	6.4	4.6
4103	50.8	36.5	6.7	15.9	39.7	20.6	40.5	13.5	10.7



SF-2 (A TYPE)

(Unit: mm)

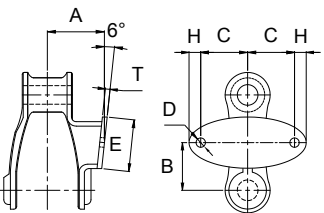
BANDO Chain No.	DIMENSION									WEIGHT (kg/m)
	A	B	C	D	E	F	G	L	T	
455	23.8	15.9	10.7	4.8	46.0	13.5	7.9	20.6	4.0	4.0
477	36.5	19.1	12.7	7.9	66.7	22.2	14.3	38.1	6.4	5.5
488	34.9	30.2	11.9	7.9	73.0	25.8	15.1	38.1	7.1	6.7
4103	50.8	31.8	19.1	9.5	76.2	28.2	16.7	48.4	7.9	13.8



SF-2 (B TYPE)

(Unit: mm)

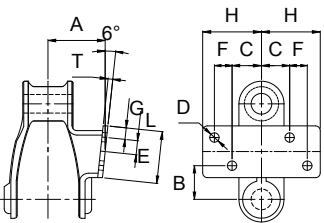
BANDO Chain No.	DIMENSION											WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	J	L	T	
4103	50.8	66.7	19.1	9.5	79.4	28.2	17.5	11.5	56.4	49.2	10.3	14.3



Z-2

(Unit: mm)

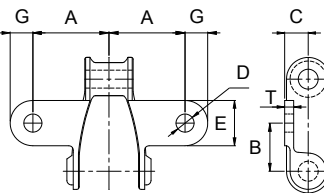
BANDO Chain No.	DIMENSION							WEIGHT (kg/m)
	A	B	C	D	E	H	T	
477	36.5	28.6	33.3	7.9	33.3	11.1	6.4	5.5



Z-4

(Unit: mm)

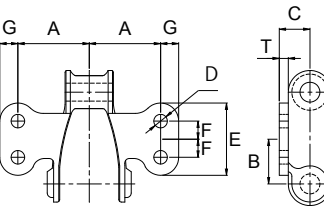
BANDO Chain No.	DIMENSION										WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	L	T	
488	66	26.2	21.4	6.4	34.9	17.5	10.3	49.2	7.1	5.6	7.1
4103	54.8	31.4	21.4	9.5	42.9	17.5	14.3	50.8	7.1	6.4	12.2



K-1

(Unit: mm)

BANDO Chain No.	DIMENSION							WEIGHT (kg/m)
	A	B	C	D	E	G	T	
455	25.4	20.6	11.1	6.4	20.6	11.1	4.0	3.4
477	38.1	29.4	16.7	6.4	34.9	11.9	4.0	4.3
488	48.4	33.3	16.7	6.4	34.9	11.9	4.8	5.8
4103	29.4	38.1	20.6	9.5	43.7	15.9	5.6	9.8
4124	76.2	51.6	25.4	15.9	63.5	25.4	8.0	16.5



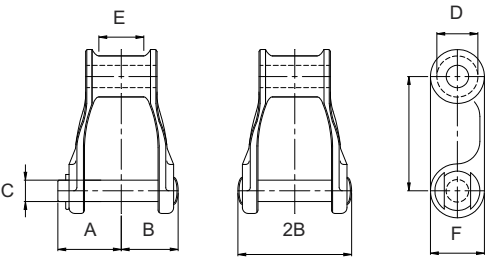
K-2

(Unit: mm)

BANDO Chain No.	DIMENSION								WEIGHT (kg/m)
	A	B	C	D	E	F	G	T	
488	46.0	32.5	16.7	7.9	54.0	15.9	11.1	4.8	6.8
4103	52.4	38.9	21.4	12.7	66.7	19.1	14.3	7.9	11.9
4124	63.5	47.6	30.2	9.5	79.4	23.0	15.9	7.1	17.4

BDH-C TYPE CHAIN

H CLASS PINTLE CHAIN

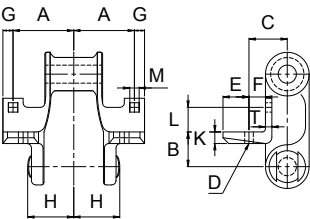


A rib is attached to the underside of the chain and trope's inner part or upper surface, which only comes into contact with the upper surface. The area of the sliding part is designed wide to reduce the wear of the chain surface. The load won't cause sinking while conveying thus the degree of pitch can be maintained.

(Unit: mm)

BANDO Chain No.	PITCH P		AVG. ULTIMATE STRENGTH (kgf)	MAXIMUM OPERATION LOAD (kgf)	WEIGHT (kg/m)	DIMENSION					
	(mm)	(in)				A	B	C	D	E	F
H-60	58.62	2,308	3,180	530	3.29	35.6	32.0	7.9	19.1	18	19.1
H-74	66.27	2,609	4,540	720	5.22	39.6	37.0	9.5	22.2	24	25.4
H-78	66.27	2,609	7,260	1,080	6.12	46.0	39.6	12.7	22.2	24	28.6
H-82	78.11	3,075	9,070	1,400	9.77	51.6	48.9	14.3	31.0	28	31.8
H-124	101.60	4,000	13,600	2,270	13.90	65.8	61.7	19.0	36.5	40	40.0

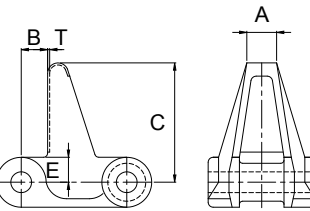
ATTACHMENT



KF-2

(Unit: mm)

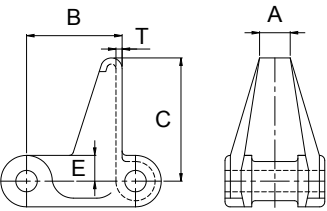
BANDO Chain No.	DIMENSION												WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	K	L	M	T	
H-78	57.2	25.4	36.5	9.5	22.2	22.2	11.1	47.6	9.5	23.8	10.3	6.4	12.1
H-82	63.5	31.8	38.1	9.5	22.2	22.2	11.1	52.4	9.5	22.2	10.3	7.1	13.2
H-124	66.7	38.1	42.1	9.5	28.6	22.2	11.1	55.6	12.7	27.0	10.3	7.1	17.6



D-1

(Unit: mm)

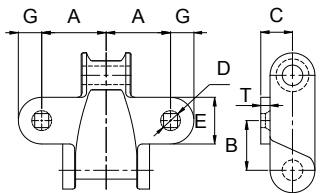
BANDO Chain No.	DIMENSION					WEIGHT (kg/m)
	A	B	C	E	T	
H-78	28.6	12.7	92.1	14.3	3.2	8.8



D-2

(Unit: mm)

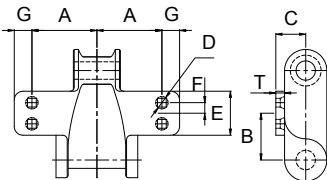
BANDO Chain No.	DIMENSION					WEIGHT (kg/m)
	A	B	C	E	T	
H-78	28.6	58.3	88.9	14.3	3.2	9.7



K-1

(Unit: mm)

BANDO Chain No.	DIMENSION							WEIGHT (kg/m)
	A	B	C	D	E	G	T	
H-60	38.1	27.0	19.1	9.0	28.6	12.7	4.8	4.33
H-74	36.5	31.8	17.5	9.0	28.6	12.7	5.5	5.97
H-78	50.8	33.8	20.6	10.5	35.0	12.7	5.6	8.23



K-2

(Unit: mm)

BANDO Chain No.	DIMENSION								WEIGHT (kg/m)
	A	B	C	D	E	F	G	T	
H-82	54.0	35.7	22.2	10.5	55.6	16.7	15.9	7.9	11.97
H-124	66.7	46.8	30.2	11.0	73.0	24.6	14.3	7.9	18.43

D-3

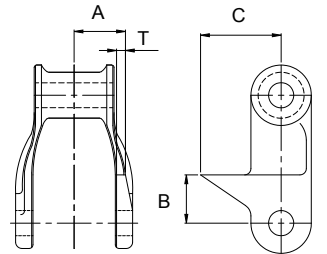
(Unit: mm)

BANDO Chain No.	DIMENSION				WEIGHT (kg/m)
	A	B	C	T	
H-78	29	29	38	6.4	5.67
H-82	32	29	40	4.8	6.13

D-4

(Unit: mm)

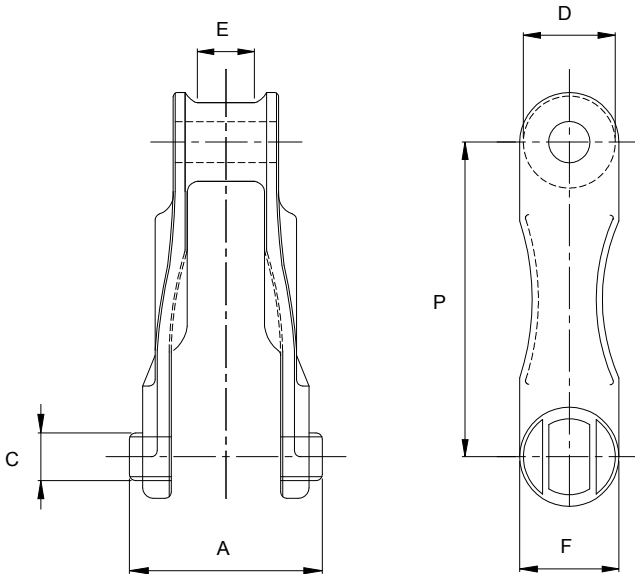
BANDO Chain No.	DIMENSION				WEIGHT (kg/m)
	A	B	C	T	
H-78	31.8	29	40	4.8	6.58



BD700-C TYPE CHAIN

700 CLASS PINTLE CHAIN

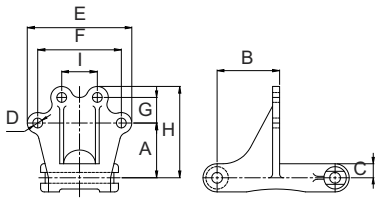
Among the features that can be used are corrosion and rust resistance for seawater or other contaminated water. These chains are especially wear resistant to ward such harsh environments as found in sewage collectors and are designed with long pitches for power and can withstand the wear. Stronger attachments are available to be used with large scrapers or buckets. 700 series chains are used in batcher plants to transport sand and gravel with bucket elevators and must withstand sever wear from the abrasives materials.



(Unit: mm)

BANDO Chain No.	PITCH P	AVG. ULTIMATE STRENGTH (kgf)	ALLOWABLE LOAD (kgf)	WEIGHT (kg/m)	DIMENSION				
					A	C	D	E	F
710	119.6	12,500	1,900	9.4	143	17.5	28.6	60	35
720	152.4	12,500	1,610	7.4	90	17.5	35	27	38
720S	152.4	17,000	1,840	7.8	98	19.1	36.5	27	40
730	152.4	19,000	1,950	9	97	19.1	38.1	27	45

ATTACHMENT



F-4

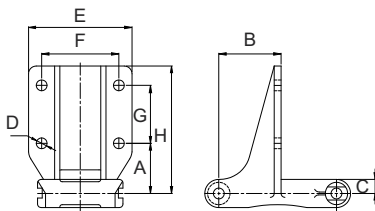
(Unit: mm)

BANDO Chain No.	DIMENSION									WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	I	
720	50.8	76	19.1	12.7	135	54	33	98	33	9.7
720S	50.8	76	19.8	12.7	135	54	33	98	33	11.5
730	50.8	76	22.2	12.7	135	54	33	98	33	12.9

F-B

(Unit: mm)

BANDO Chain No.	DIMENSION								WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	
720	60	76	19.1	12.7	138	100	60	140	15.7
720S	60	76	19.8	12.7	125	95	64	139	16
730	60	76	22.2	12.7	130	95	64	152	20



[F-B, C, D ATTACHMENT]

F-C

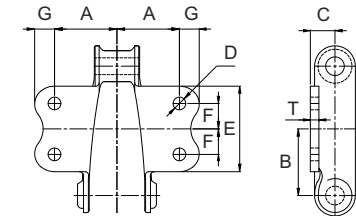
(Unit: mm)

BANDO Chain No.	DIMENSION								WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	
720	60	76	19.1	12.7	130	95	67	152	16.7
720S	60	76	19.8	12.7	130	95	67	152	17.1
730	60	76	22.2	12.7	130	95	67	152	20.5

F-D

(Unit: mm)

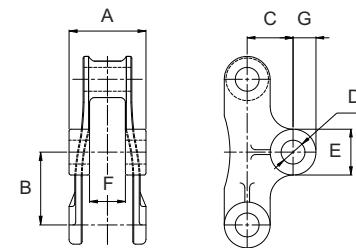
BANDO Chain No.	DIMENSION								WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	
720	60	76	19.1	12.7	127	95	114	6.3	19.4
720S	60	76	19.8	12.7	127	95	114	203	20.1
730	60	76	22.2	12.7	127	95	114	203	23.1



K-2

(Unit: mm)

BANDO Chain No.	DIMENSION								WEIGHT (kg/m)
	A	B	C	D	E	F	G	H	
710	79	60	20.6	19.1	84	29	14	6.3	12.1
730	76	76	25.4	12.7	102	33	18	7.9	12.8



[M-1 ATTACHMENT]

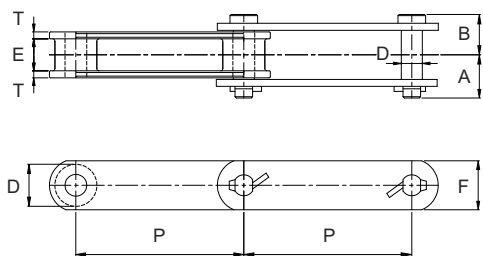
M-1

(Unit: mm)

BANDO Chain No.	DIMENSION							WEIGHT (kg/m)
	A	B	C	D	E	F	G	
720	76	76	38.1	19.1	38.1	38.1	19.1	9
720S	76	76	38.1	19.1	38.1	38.1	19.1	10
730	76	76	41.3	19.1	38.1	38.1	19.1	11.6

BD700-CB TYPE CHAIN

700 CLASS PINTLE CHAIN (PHW COMBINATION CHAIN)

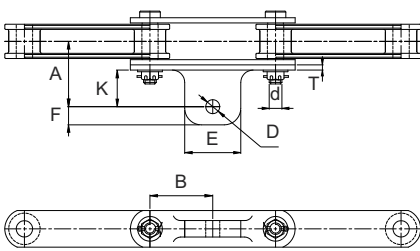


Mainly for use in sewage treatment plants, pump relay, grit collectors, power plants, seawater intake and bar-screen facilities. Ultra-tough chains.

(Unit: mm)

BANDO Chain No.	PITCH P		AVG. ULTIMATE STRENGTH (kgf)	ALLOWABLE LOAD (kgf)	DIMENSION							WEIGHT (kg/m)
	(mm)	(in)			A	B	C	D	E	F	T	
C730PHW	152.4	6	25,000	3,300	44.7	39.3	19	38.1	29	44.5	6.3	9.7
C112PHW	152.4	6	30,000	3,800	54.2	47.8	19	38.0	42	50.8	6.3	11.33
C113PHW	152.4	6	40,000	5,400	68.0	59.0	22	44.5	54	50.8	9.5	16.93

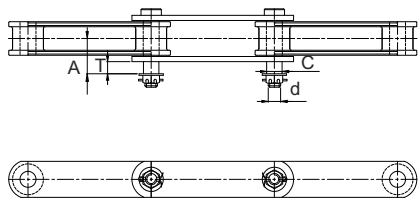
ATTACHMENT



CA-1

(Unit: mm)

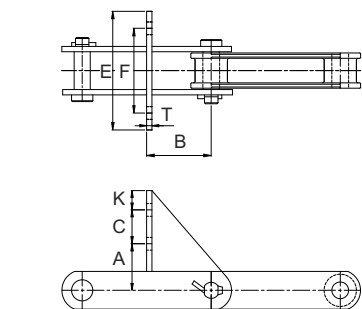
BANDO Chain No.	DIMENSION								WEIGHT (kg/2LK-1SET)
	A	B	D	E	F	K	T	d	
C 730 PHW	79.3	76.2	17	68	22	27.0	24	M16	4.85
C 112 PHW	90.0	76.2	20	80	25	32.2	28	M16	5.56
C 113 PHW	113.0	76.2	23	80	28	35.0	28	M20	8.21



D-22

(Unit: mm)

BANDO Chain No.	DIMENSION				WEIGHT (kg/2LK-1SET)
	A	C	d	T	
C 730 PHW	52.3	18.8	M16	19	3.15
C 112 PHW	60.8	18.8	M16	19	3.58
C 113 PHW	78.0	21.8	M20	25	5.41



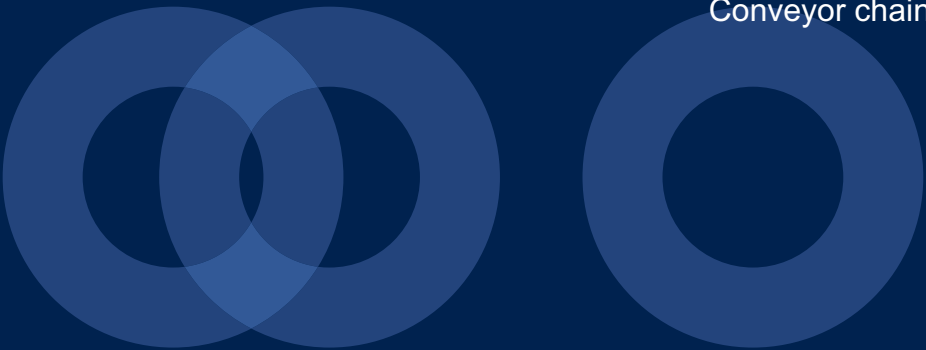
SF-4

(Unit: mm)

BANDO Chain No.	DIMENSION							
	A	B	C	D	E	F	K	T
C 730 PHW	55	76.3	40	15	140	100	22.8	6.3
C 112 PHW	55	66.3	40	14	200	140	19.6	6.3
C 113 PHW	55	67.0	40	15	220	160	19.6	9.5

SMALL SIZE CONVEYOR CHAIN

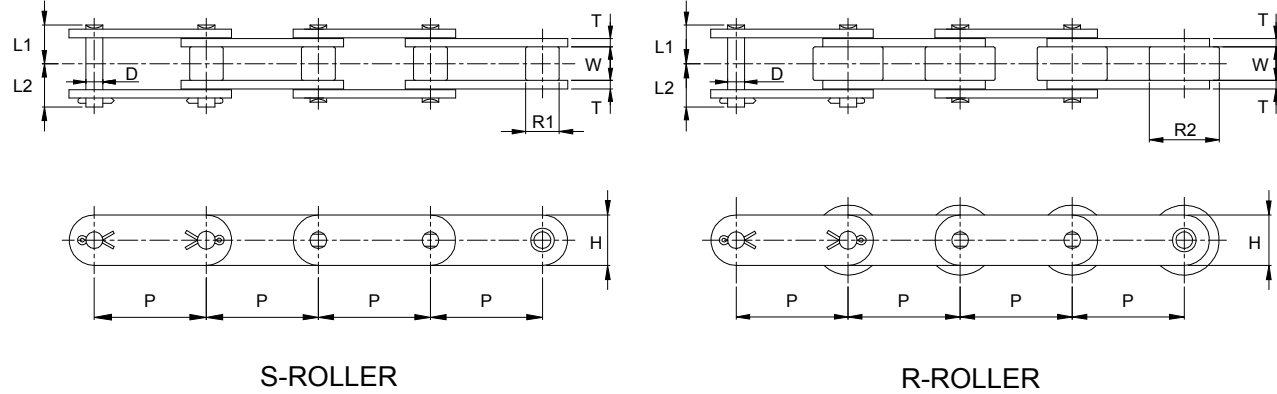
- Standard small size conveyor chain
- Side roller type chain
- Triple chain
- Top roller chain
- Sprocket for Standard small size Conveyor chain



STANDARD SMALL SIZE CONVEYOR CHAIN



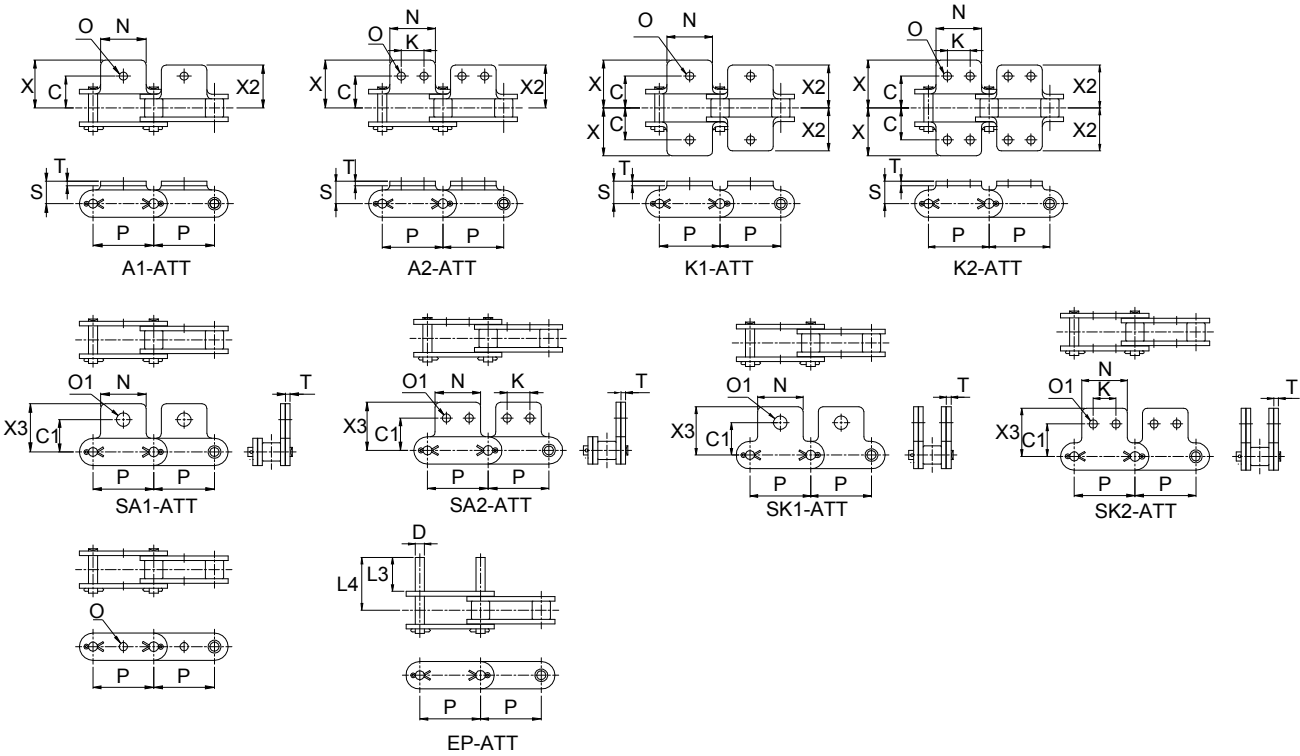
It is mainly designed for easy attaching for various type of attachment. Each part treated same as chain main body and it makes longer life span and allows the using for long distance conveyor. According to application, available R roller and S roller (contact us for more details.)



(Unit: mm)

BANDO Chain No.		PITCH P	INNER WIDTH W	ROLLER DIA.		PIN			LINK PLATE		AVG. ULTIMATE STRENGTH (kgf)	MAXIMUM ALLOWABLE LOAD (kg)	APPROX. WEIGHT(kg/m)	
				S R1	R R2	L1	L2	D	WIDTH H	THICK T			S ROLLER	R ROLLER
BD2040S	BD2042R	25.4	7.95	7.94	15.88	8.25	9.65	3.97	12.0	1.5	1,700	270	0.51	0.87
BD2050S	BD2052R	31.75	9.53	10.16	19.05	10.3	11.9	5.09	15.0	2.0	2,800	440	0.84	1.30
BD2060S	BD2062R	38.10	12.70	11.91	22.23	14.6	16.4	5.96	17.2	3.2	4,100	640	1.51	2.19
BD2080S	BD2082R	50.80	15.88	15.88	28.58	17.8	21.1	7.94	23.0	4.0	7,000	1,090	2.66	3.68
BD2100S	BD2102R	63.50	19.05	19.05	39.69	21.4	24.5	9.54	28.6	4.8	11,000	1,740	3.99	6.30
BD2120S	BD2122R	76.20	25.40	22.23	44.45	26.6	30.6	11.11	34.4	5.6	15,400	2,440	5.35	8.60
BD2160S	BD2162R	101.60	31.75	28.58	57.15	33.5	38.55	14.29	48.2	7.15	26,300	4,170	9.42	1.79

※ Please contact us for stainless specification.



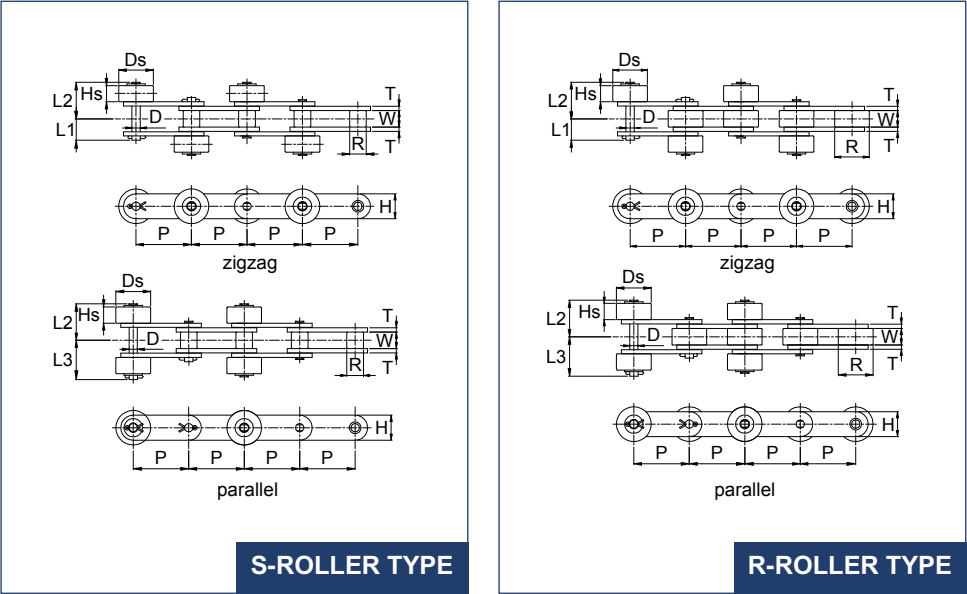
(Unit: mm)

BANDO Chain No.		PITCH P	C	C1	C2	K	N	O	O1	S	T	X	X2	X3	D	L3	L4	G	WEIGHT PER 1 ATT (kg/ea)		
																			A. SA ATT	K. SK ATT	EP ATT
BD2040S	BD2042R	25.40	12.7	11.1	13.6	9.5	19.1	3.6	5.2	9.1	1.5	19.3	17.6	19.8	3.97	9.5	16.85	4.1	0.003	0.006	0.001
BD2050S	BD2052R	31.75	15.9	14.3	15.9	11.9	23.8	5.2	6.8	11.1	2.0	24.2	22.0	24.6	5.09	11.9	21.15	5.1	0.006	0.012	0.002
BD2060S	BD2062R	38.10	21.45	17.5	19.1	14.3	28.6	5.2	8.7	14.7	3.2	31.5	28.2	30.6	5.96	14.3	27.5	6.1	0.017	0.034	0.003
BD2080S	BD2082R	50.80	27.8	22.2	25.4	19.1	38.1	6.8	10.3	19.1	4.0	40.7	36.6	40.5	7.94	19.1	35.575	8.1	0.037	0.074	0.007
BD2100S	BD2102R	63.50	33.35	28.6	31.8	23.8	47.6	8.7	14.3	23.4	4.8	49.9	44.9	50.4	9.54	23.8	43.575	10.1	0.067	0.134	0.012
BD2120S	BD2122R	76.20	39.7	33.3	37.3	28.6	57.2	14	16	27.8	5.6	60.7	54.4	59.9	-	-	-	-	0.100	0.200	-
BD2160S	BD2162R	101.60	52.4	44.5	50.8	38.1	76.2	18	22	36.5	7.15	77.8	70.0	78.6	-	-	-	-	0.213	0.426	-

SIDE ROLLER TYPE CHAIN

Used when the chain is running automatically but uses a stopper (to stop the material), or when the chain and the transported materials are stopped simultaneously. Also used when there is impact from the transferred material exiting the system.

- 1 Attached side roller as a safety feature, this equipment is compact and can assist in handling back feeding as well as returning.
- 2 When there is concern for line surging, use a bearing for the side roller or press a ball-bearing to the roller.
- 3 Lowest friction when the transferred materials stop on the chain.
- 4 In case of transferring small size of material, apply side roller to every link.
- 5 When using the attached roller during the working process, both low and high speed operating styles are possible without the need to design separate facilities.
- 6 Damage and contamination are avoided due to the rollers are engineering plastics.

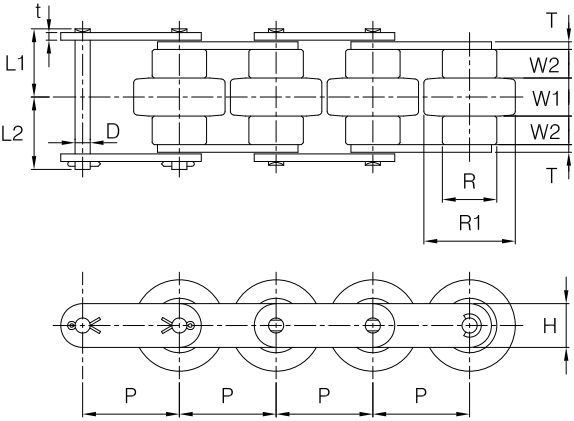


(Unit: mm)

BANDO Chain No.	PITCH P	ROLLER OUTER DIA. R	INNER WIDTH W	LINK PLATE		PIN				SIDE-ROLLER	
				T	H	D	L1	L2	L3	Ds	Hs
BD2040S	25.4	7.94	7.95	1.5	12	3.97	9.95	17.9	19.3	15.88	7.8
BD2050S	31.75	10.16	9.53	2	15	5.09	11.9	21.6	23.4	19.05	9.4
BD2060S	38.1	11.91	12.7	3.2	17.2	5.96	16.95	29.65	32.05	22.23	12.6
BD2080S	50.8	15.88	15.88	4	23	7.94	20.95	36.65	39.65	28.58	15.8
BD2100S	63.5	19.05	19.05	4.8	28.6	9.54	24.5	44.2	47.3	39.69	19

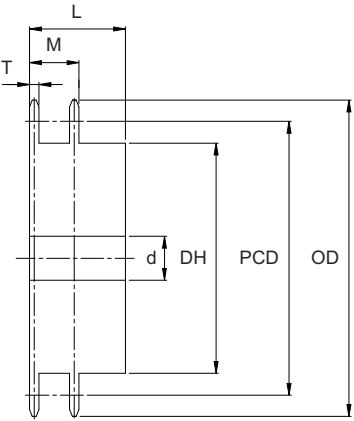
BANDO Chain No.	PITCH P	ROLLER OUTER DIA. R	INNER WIDTH W	LINK PLATE		PIN				SIDE-ROLLER	
				T	H	D	L1	L2	L3	Ds	Hs
BD2042R	25.4	15.88	7.95	1.5	12	3.97	9.95	24.05	24.5	23	13
BD2052R	31.75	19.05	9.53	2	15	5.09	11.9	26.5	26.5	27	13
BD2062R	38.1	22.23	12.7	3.2	17.2	5.96	16.95	31.55	31.55	30	13

TRIPLE CHAIN



(Unit: mm)

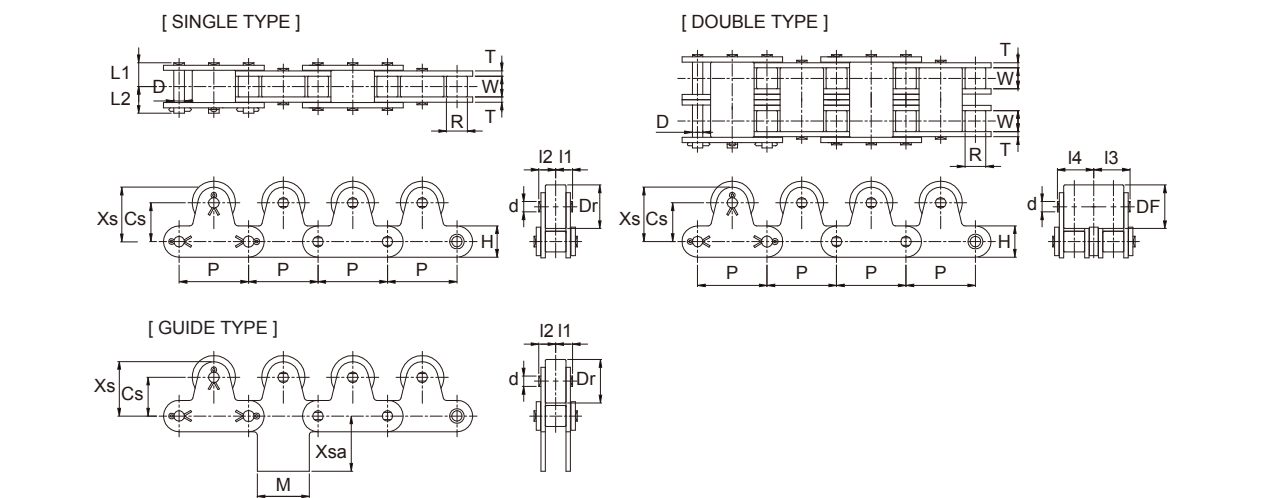
BANDO Chain No.	P	R	R1	W1	W2	t	T	H	D	L1	L2	APPROX. WEIGHT(kg/m)
BD2030VRP	19.05	11.91	18.3	8.0	4.0	1.5	1.25	9.0	3.59	11.9	13.1	0.6
BD2040VRP	25.40	15.88	24.6	10.3	5.7	2.0	1.5	12.0	3.97	15.8	17.0	1.0
BD2050VRP	31.75	19.05	30.6	13.0	7.1	2.4	2.0	15.0	5.09	19.55	21.25	1.4
BD2060VRP	38.10	22.23	36.6	15.5	8.5	4.0	3.2	17.2	5.96	25.3	27.2	2.4



(Unit: mm)

BANDO Sprocket No.	TYPE	TEETH NO.	PCD	OD	TEETH WIDTH T	INNER DIA. d	BOSS		M	MATERIAL	APPROX. WEIGHT(kg/m)
							DH	L			
BD2030VRP-10T	B	10	61.65	68	3.0	12.7	37	25	15	S45C	0.2
BD2040VRP-10T	B	10	82.20	93	4.0	16	52	40	20	S45C	0.8
BD2050VRP-10T	B	10	102.75	117	5.0	16	66	45	25.1	S45C	1.5
BD2060VRP-10T	B	10	123.30	137	6.0	19	81	50	30	S45C	2.5

TOP - ROLLER CHAIN



(Unit: mm)

BANDO Chain No.	PITCH P	INNER LINK WIDTH W	OUT DIA.		PIN					LINK PLATE		C	AVG. ULTIMATE STRENGTH (kgf)	MAXIMUM ALLOWABLE LOAD (kg)
			S ROLLER	R ROLLER	d	L1	L2	L3	L4	HIGHT H	THICKNESS T			
BD2040	25.40	7.95	7.94	15.88	3.97	8.25	9.65	-	-	12.0	1.5	-	1,920	370
BD2050	31.75	9.53	10.16	19.05	5.09	10.30	11.90	-	-	15.0	2.0	-	3,200	650
BD2060	38.10	12.70	11.91	22.23	5.96	14.55	16.95	-	-	17.2	3.2	-	4,400	900
BD2080	50.80	15.88	15.88	28.58	7.94	17.95	20.95	-	-	23.0	4.0	-	7,500	1,500
BD2100	63.50	19.05	19.05	39.69	9.54	21.40	24.50	-	-	28.6	4.8	-	11,500	2,300
BD2040-2	25.40	7.95	7.94	15.88	3.97	-	-	15.45	16.85	12.0	1.5	14.4	3,840	630
BD2050-2	31.75	9.53	10.16	19.05	5.09	-	-	19.35	20.95	15.0	2.0	18.1	6,400	110
BD2060-2	38.10	12.70	11.91	22.23	5.96	-	-	27.65	30.05	17.2	3.2	26.2	4,400	900
BD2080-2	50.80	15.88	15.88	28.58	7.94	-	-	34.25	37.25	23.0	4.0	32.6	7,500	1,500'
BD2100-2	63.50	19.05	19.05	39.69	9.54	-	-	40.95	44.05	28.6	4.8	39.1	11,500	2,300

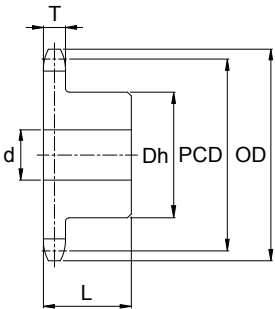
(Unit: mm)

ATTACHMENT										APPROX. WEIGHT (kg/m)	
Dr	Cs	Xs	I1	I2	I3	I4	Xsa	M	D	S ROLLER	R ROLLER
15.88	15.0	21.0	8.45	10.05		-	19.8	19.1	5.2	1.33	1.69
19.05	19.0	26.5	10.50	12.9		-	24.6	23.8	6.1	2.04	2.50
22.23	23.0	31.8	14.75	17.75		-	30.6	28.6	8.07	3.68	4.36
28.58	29.0	40.5	18.15	22.23	-	-	40.5	38.1	9.73	5.65	6.76
39.69	35.4	49.7	22.10	27.20	-	-	50.4	47.6	14.52	9.11	11.37
15.88	15.0	21.0	-	-	15.65	17.25	19.8	19.1	5.2	2.66	3.38
19.05	19.0	26.5	-	-	19.55	21.95	24.6	23.8	6.1	4.08	5.0
22.23	23.0	31.8	-	-	27.85	30.85	30.6	28.6	8.07	7.36	8.72
28.58	29.0	40.5	-	-	34.45	37.55	40.5	38.1	9.73	11.3	13.52
39.69	35.4	49.7	-	-	41.65	46.75	50.4	47.6	14.52	18.22	22.74

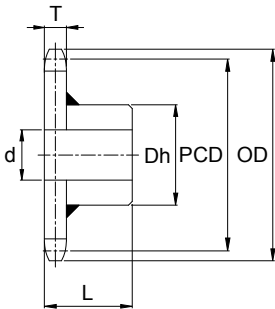
SPROCKET FOR SDTANDARD SMALL CONVEYOR CHAIN



Available to use a special teeth sprockets and roller chain sprocket but derailment can occur if the sprocket teeth and chain pitch size are not matched correctly so if you want to use with BD-Chain/sprocket , set the minimum type number at more than 30T.



B TYPE



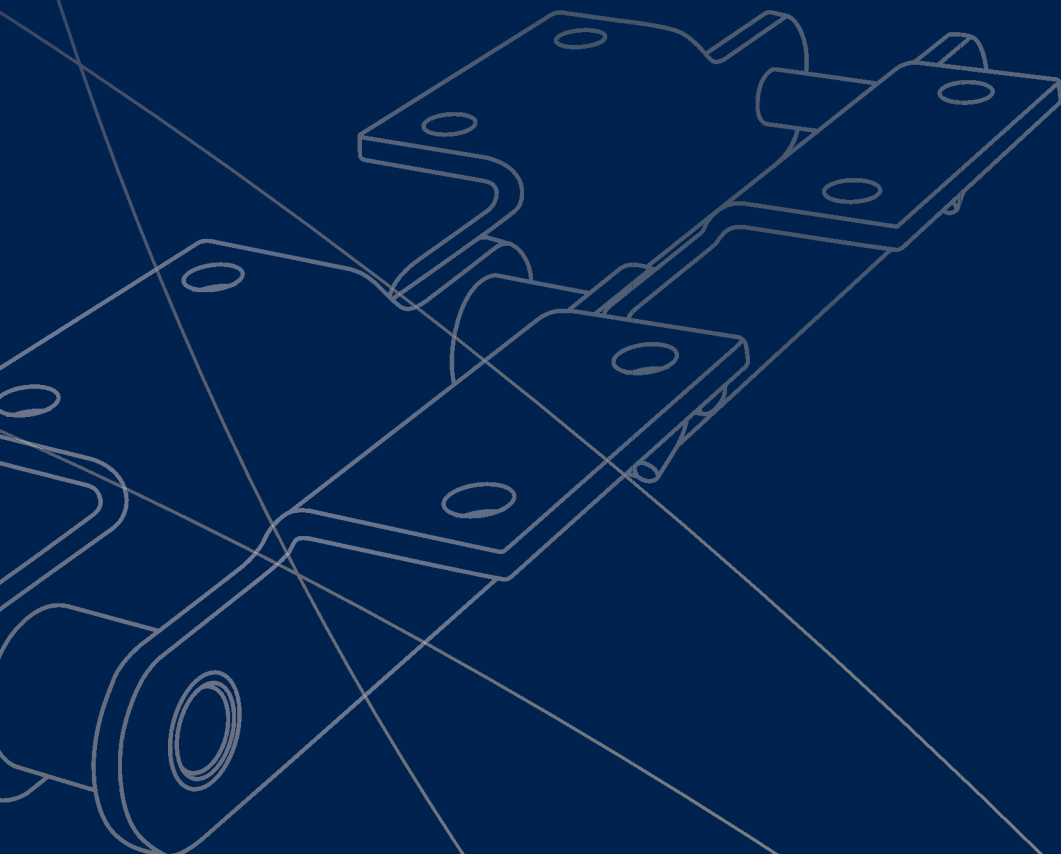
BW TYPE

(Unit: mm)

BANDO Chain No.	TEETH NO.		TYPE	PCD	OD	THICKNESS T	INNER DIA. d		BOSS		APPROX. WEIGHT (kg/ea)	MATERIAL		
							MIN	MAX	Dh	L				
BD2040S	19	9.5	B	78.23	84	7.2	12.5	35	60	25	0.64	S45C		
	21	10.5		86.17	92			45.5	69		0.86			
	23	11.5		94.15	99			50	77		1.0			
	25	12.5		102.14	108			42	63		0.87			
BD2050S	19	9.5		97.78	105	8.7	16	47.5	73	28	1.1			
	21	10.5		107.72	115						1.2			
	23	11.5		117.68	125						1.3			
	25	12.5		127.67	135						1.5			
BD2060S	19	9.5		117.34	126	11.7	16	55	83	40	2.1			
	21	10.5		129.26	138						2.3			
	23	11.5		141.22	150		18			45	2.7			
	25	12.5		153.2	162						3.0			
BD2080S	19	9.5	BW (Weld-ing)	156.45	167	14.6	23	63	93	40	3.4	S45C		
	21	10.5		172.35	184						3.8			
	23	11.5		188.29	200		28			75	107		45	5.0
	25	12.5		204.27	216									5.6
BD2100S	19	9.5		195.58	209	17.6	28	75	107	50	5.9			
BD2120S	19	9.5		234.68	251	23.5	33	80	117	63	10.7			
BD2160S	19	9.5		312.9	335	29.4	33	103	147	71	22.3			
BD2042R	11	11		B	90.16	102	7.2	12.5	42	63	25		0.77	S45C
	12	12			98.14	108						0.84		
	13	13			106.14	118						0.91		
BD2052R	11	11		B	112.7	127	8.7	16	47.5	73	25	1.3		
	12	12			122.67	138	8.7	18	48	73	28	1.3		
	13	13	132.67		148	1.5								
BD2062R	11	11	BW (Weld-ing)	135.24	153	11.7	18	55	83	45	2.6	S45C		
	12	12		147.21	165						2.8			
	13	13		159.2	177						3.1			
BD2082R	11	11		180.31	204	14.6	28	75	107	45	4.8			
	12	12		196.28	220						5.3			
	13	13		212.27	237						5.9			
BD2102R	11	11		225.39	254	17.6	33	80	117	56	7.9			
BD2122R	11	11		270.47	303	23.5	45	80	130	80	13.0			
BD2162R	11	11		360.63	405	29.4	70	115	170	125	32.0			

POWER TRANSMISSION ROLLER CHAIN

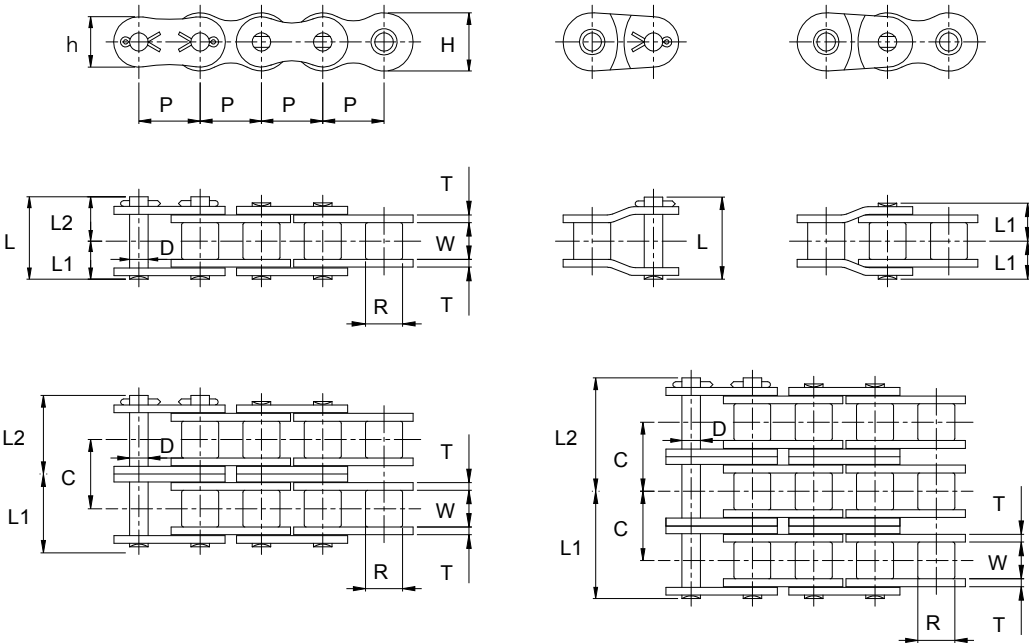
- Standard roller chain, Connect link
- Standard attachment, Curve roller chain
- Plated & Stainless chain
- Top roller chain
- Standard roller chain sprocket



STANDARD ROLLER CHAIN & CONNECT LINK

STANDARD ROLLER CHAIN

Roller chain has been structurally linked to each other pin link and roller link as in the shown picture, and is used power transmission and lightweight transport.



(Unit: mm)

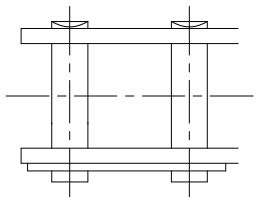


BANDO Chain No.	KS No	PITCH P	ROLLER OUTER DIA. R	INNER DIA. W	LINK PLATE			PIN DIA D
					T	H	h	
BD40	40	12.7	7.94	7.95	1.5	12.0	10.4	3.97
BD50	50	15.875	10.16	9.53	2.0	15.0	13.0	5.09
BD60	60	19.05	11.91	12.70	2.4	18.1	15.6	5.96
BD80	80	25.40	15.88	15.88	3.2	24.1	20.8	7.94
BD100	100	31.75	19.05	19.05	4.0	30.1	26.0	9.54
BD120	120	38.10	22.23	25.40	4.8	36.2	31.2	11.11
BD140	140	44.45	25.4	25.40	5.6	42.2	36.4	12.71
BD160	160	50.80	28.58	31.75	6.4	48.2	41.6	14.29
BD200	200	63.50	39.69	38.10	8.0	60.3	52.0	19.85
BD240	240	76.2	47.63	47.63	9.5	72.4	62.4	23.81

BANDO Chain No.	LINE	PIN			OFF-SET PIN LENGTH	TRANSVERSE PITCH C	KS ULTIMATE STRENGTH (KGF)	AVG. ULTIMATE STRENGTH (KGF)	MAXIMUM ALLOWABLE LOAD (kg)	APPROX. WEIGHT (kg/ea)
		L	L1	L2						
BD40	1	17.46	8.25	9.21	18.5	14.4	1,420	1,950	370	0.64
BD40-2	2	32.6	15.45	17.15	33.5		2,840	3,900	630	1.27
BD40-3	3	46.8	22.65	24.15	47.6		4,260	5,850	930	1.90
BD40-4	4	61.2	29.9	31.3	52.3		5,680	7,800	1,220	2.53
BD40-5	5	75.7	37.1	38.6	76.8		7,100	9,750	1,440	3.56
BD40-6	6	90.1	44.3	45.8	91.2		8,520	11,700	1,700	3.79
BD50	1	22.3	10.3	12.0	22.5	18.1	2,210	3,200	650	1.04
BD50-2	2	40.5	19.35	21.15	41.8		4,420	6,400	1,100	2.07
BD50-3	3	58.6	28.4	30.2	59.9		6,630	9,600	1,630	3.09
BD50-4	4	76.7	37.45	39.25	78.1		8,840	12,800	2,150	4.11
BD50-5	5	94.8	46.5	48.3	96.2		11,050	16,000	2,540	5.14
BD50-6	6	113.0	55.6	57.4	114.4		13,260	19,200	2,990	6.16
BD60	1	28.1	12.85	15.25	28.2	22.8	3,200	4,500	900	1.53
BD60-2	2	51.0	24.25	26.75	52.5		6,400	9,000	1,50	3.04
BD60-3	3	73.8	35.65	38.15	75.5		9,600	13,500	2,250	4.54
BD60-4	4	96.6	47.05	49.55	98.3		12,800	18,000	2,970	6.04
BD60-5	5	119.5	58.5	61.0	121.2		16,000	22,500	3,510	7.54
BD60-6	6	142.4	69.9	72.5	144.0		19,200	27,000	4,140	9.05
BD80	1	35.5	16.25	19.25	36.6	29.3	5,650	8,000	1,500	2.66
BD80-2	2	64.8	30.9	33.9	67.5		11,300	16,000	2,550	5.27
BD80-3	3	94.1	45.6	48.5	96.9		16,950	24,000	3,750	7.89
BD80-4	4	123.5	60.25	63.25	123		22,600	32,000	4,950	10.50
BD80-5	5	152.9	74.9	77.95	155.6		28,250	40,000	5,850	13.11
BD80-6	6	182.1	89.6	92.5	184.9		33,900	48,000	6,900	15.73
BD100	1	42.60	19.75	22.85	44.40	35.8	8,850	12,000	2,300	3.99
BD100-2	2	78.50	37.70	40.80	81.50		17,700	24,000	3,910	7.85
BD100-3	3	114.40	55.65	58.75	117.30		26,550	36,000	5,750	11.77
BD100-4	4	150.20	73.55	76.65	153.10		35,400	48,000	7,590	15.70
BD100-5	5	186.10	91.50	94.60	188.90		44,250	60,000	8,970	19.53
BD100-6	6	220.00	109.45	112.55	224.70		53,100	72,000	10,580	23.48
BD120	1	53.80	24.90	28.90	55.80	45.4	12,800	17,000	3,100	5.93
BD120-2	2	99.20	47.60	51.60	103.20		25,600	32,600	5,270	11.70
BD120-3	3	144.80	70.40	74.40	148.60		38,400	48,900	7,750	17.53
BD120-4	4	190.20	93.10	97.10	194.00		51,200	65,200	10,230	23.36
BD120-5	5	235.70	115.85	119.85	239.40		64,000	81,500	12,090	29.16
BD120-6	6	281.10	138.55	142.55	284.80		76,800	97,800	14,260	34.96
BD140	1	58.60	26.90	37.70	60.50	48.9	17,400	22,000	4,100	7.49
BD140-2	2	107.50	51.35	56.15	112.30		34,800	42,800	6,970	14.83
BD140-3	3	156.60	75.85	80.75	161.30		52,200	64,200	10,250	22.20
BD140-4	4	205.50	100.30	105.20	210.20		69,600	85,600	13,530	28.52
BD140-5	5	254.40	124.80	129.60	259.10		87,000	107,000	15,990	36.97
BD140-6	6	303.50	149.30	154.20	308.00		104,400	128,400	18,860	44.30
BD160	1	68.70	31.85	36.85	71.00	58.5	22,700	27,500	5,400	10.10
BD160-2	2	127.30	61.15	66.15	132.20		45,400	54,000	9,180	20.04
BD160-3	3	185.90	90.45	95.50	190.70		68,100	81,000	13,500	30.02
BD160-4	4	244.40	119.75	124.65	249.20		90,800	108,000	17,820	40.06
BD160-5	5	303.00	149.05	153.95	307.70		113,500	135,000	21,060	49.89
BD160-6	6	361.60	178.30	183.30	366.20		136,200	162,000	24,840	59.93
BD200	1	83.80	39.00	44.80	87.30	71.6	35,400	47,000	7,300	16.49
BD200-2	2	155.50	74.85	80.65	161.20		70,800	94,000	12,410	32.63
BD200-3	3	227.20	110.75	116.45	223.00		106,200	141,000	18,250	49.02
BD200-4	4	298.90	146.60	152.30	304.70		141,600	188,000	24,090	65.16
BD200-5	5	370.60	182.40	188.20	376.30		177,000	235,000	28,470	81.32
BD200-6	6	442.30	218.25	244.05	448.00		212,400	282,000	33,580	97.59
BD240	1	103.40	47.90	55.50	106.70	87.8	51,100	69,000	10,100	24.50
BD240-2	2	191.30	91.90	99.40	198.40		102,200	138,000	17,170	48.10
BD240-3	3	279.00	135.85	143.15	286.30		153,300	207,000	24,250	71.60
BD240-4	4	367.10	179.80	187.30	374.20		204,400	276,000	33,330	95.10
BD240-5	5	455.00	223.75	231.25	462.00		255,500	345,000	39,390	118.60
BD240-6	6	542.80	267.70	257.10	550.10		306,600	414,000	46,460	142.10

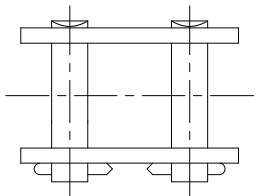
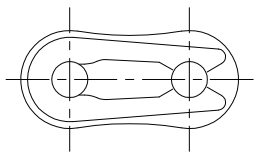
CONNECT LINK

The clip and split-pin-connection-link are used as even link , and off- set and 2pitch off- set link are used odd link.



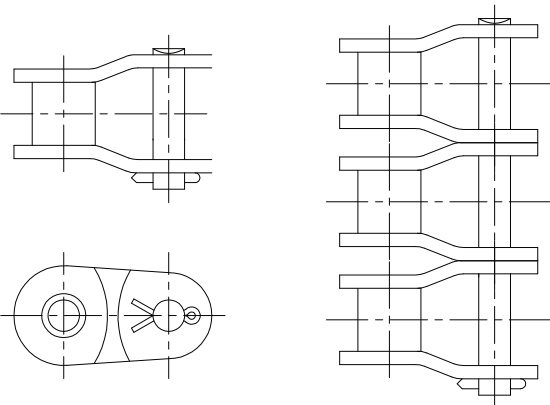
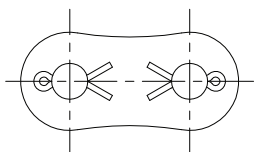
CLIP CONNECTION LINK

The joint link plate is supported from a spring clip, this type is generally used for chain under BD60.



SPLIT PIN CONNETION LINK

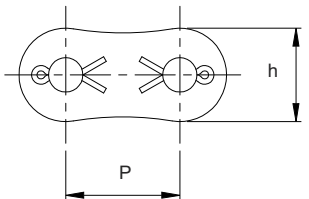
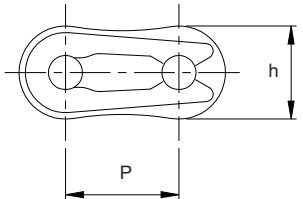
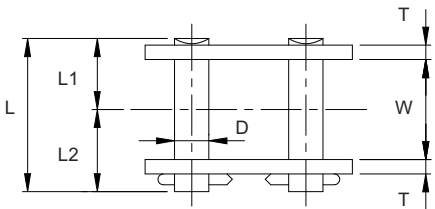
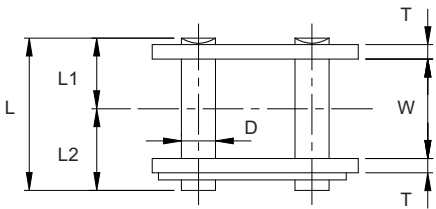
Two pins are pressed into a link plate and then rivet and then on one side , a joint link plate can be easily attached and dismantled to the joint pin so that it is supported by the split pin. It is mainly used for chains of BD 80 or more.



1PITCH OFF-SET LINK

1pitch off- set link is structure integrated with a Pin link and a roller link and the pin can be easily dismantled. in case, the chain is used an odd link , use an off-set link, but It is recommended to possibly use even link considering the power efficiency of the chain.

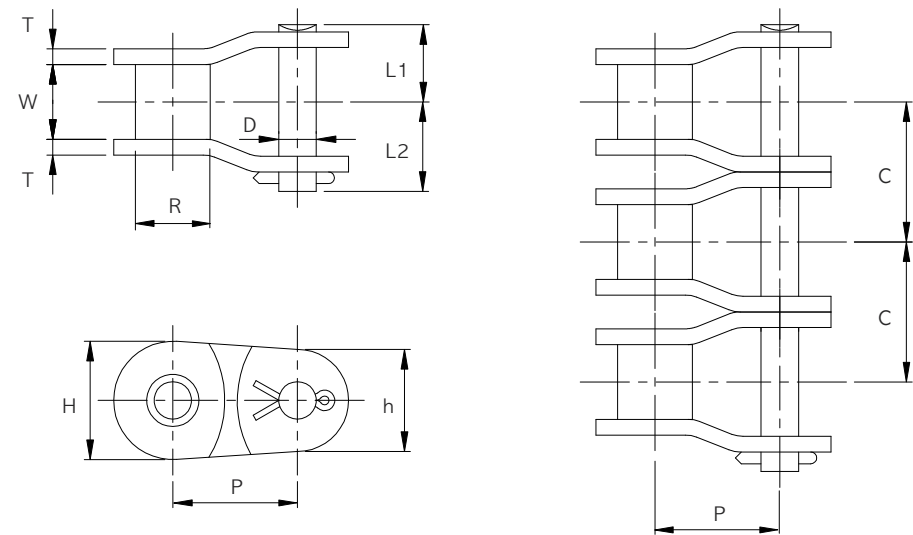
STANDARD JOINT LINK(CL)



(Unit: mm)

BANDO Chain No.	PITCH P	PIN DIA D	LINK PLATE		L1	L2	PIN LENGTH L	INNER WIDTH W	JOINT LINK TYPE
			T	h					
BD40	12.70	3.97	1.5	10.4	8.25	9.2	17.45	11.23	Clip
BD50	15.875	5.09	2.0	13	10.3	12	22.3	13.90	"
BD60	19.05	5.96	2.4	15.6	12.85	15.25	28.1	17.81	"
BD80	25.40	7.94	3.2	20.8	16.25	19.25	35.5	22.66	Split
BD100	31.75	9.54	4.0	26	19.75	22.85	42.6	27.51	"
BD120	38.10	11.11	4.8	31.2	24.9	28.9	53.8	35.51	"
BD140	44.45	12.71	5.6	36.4	26.9	31.7	58.6	37.24	"
BD160	50.80	14.29	6.4	41.6	31.85	36.85	68.7	45.27	"
BD180	57.15	17.46	7.15	46.8	35.65	42.45	78.1	51.02	"
BD200	63.50	19.85	8.0	52	39	44.8	83.8	54.94	"
BD240	76.20	23.81	9.5	62.4	47.9	55.5	103.4	67.87	"
BD200HH	63.50	19.85	9.5	52.0	42.45	49.55	92.0	57.7	"
BD240HH	76.20	23.81	12.7	62.4	53.60	63.10	116.7	73.65	"

STANDARD OFF- SET LINK (OL)



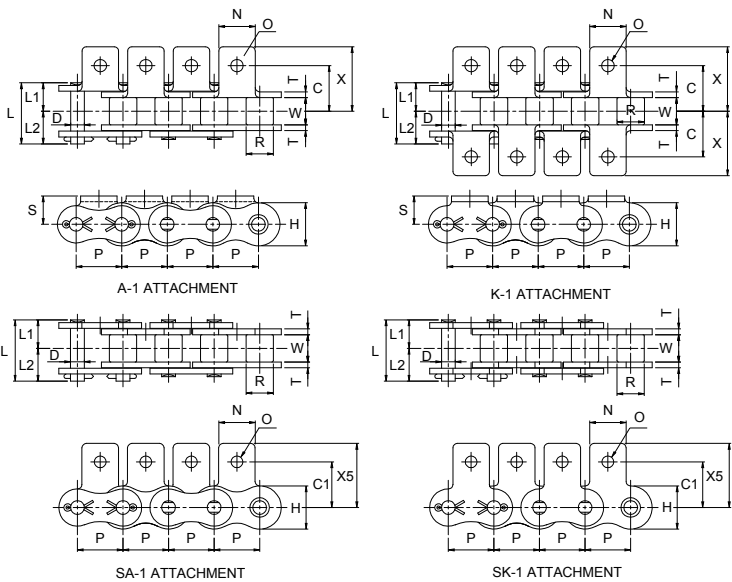
(Unit: mm)

BANDO Chain No.	PITCH P	R	INNER WIDTH W	LINK PLATE			PIN DIA D	L1	L2	PIN LENGTH L	C	AVERAGE ULTIMATE STRENGTH (Kgf)
				T	H	H						
BD40	12.70	7.94	7.95	1.50	12.0	10.4	3.97	8.25	10.25	18.5	14.4	1,950
BD50	15.875	10.16	9.53	2.00	15.0	13.0	5.09	10.3	12.2	22.5	18.1	3,200
BD60	19.05	11.91	12.7	2.40	18.1	15.6	5.96	12.85	15.35	28.2	22.8	4,500
BD80	25.40	15.88	15.88	3.20	24.1	20.8	7.94	16.25	20.35	36.6	29.3	8,000
BD100	31.75	19.05	15.88	4.00	30.1	26.0	9.54	19.75	24.65	44.4	35.8	12,000
BD120	38.10	22.23	25.4	4.80	36.2	31.2	11.11	24.9	30.9	55.8	45.4	17,000
BD140	44.45	25.4	25.4	5.60	42.2	36.4	12.71	26.9	33.6	60.5	48.9	22,000
BD160	50.80	28.58	31.75	6.40	48.2	41.6	14.29	31.85	39.15	71.0	58.5	27,500
BD180	57.15	35.71	35.72	7.15	54.2	46.8	17.46	35.65	44.95	80.6	65.8	36,500
BD200	63.50	39.69	38.1	8.00	60.3	52.0	19.85	39.0	48.3	87.3	71.6	47,000
BD240	76.20	47.63	47.63	9.50	72.4	62.4	23.81	47.9	58.8	106.7	87.8	69,000
BD1415S	12.70	7.77	4.76	1.50	12.0	10.4	3.96	6.625	8.275	14.9		1,600
BD50HH	15.875	10.16	9.65	2.40	15.0	13.0	5.09	10.96	12.86	23.82		3,500
BD60HH	19.05	11.91	12.7	3.20	18.1	15.6	5.96	14.33	16.86	31.16		5,000
BD80HH	25.40	15.88	15.88	4.00	24.1	20.8	7.94	17.85	21.95	39.8		9,000

※ 1. We also produce other type , please contact us.
2. Off- set link pin has rivet and cotta pin type.

STANDARD ATTACHMENT ROLLER CHAIN & CURVE ROLLER CHAIN
STANDARD ATTACHMENT ROLLER CHAIN

The standard attachment chain is a chain with attachments on a standard roller chain. As well as standard parts, after heat treatment of attachment , It is being used to convey conveyors and other purposes.



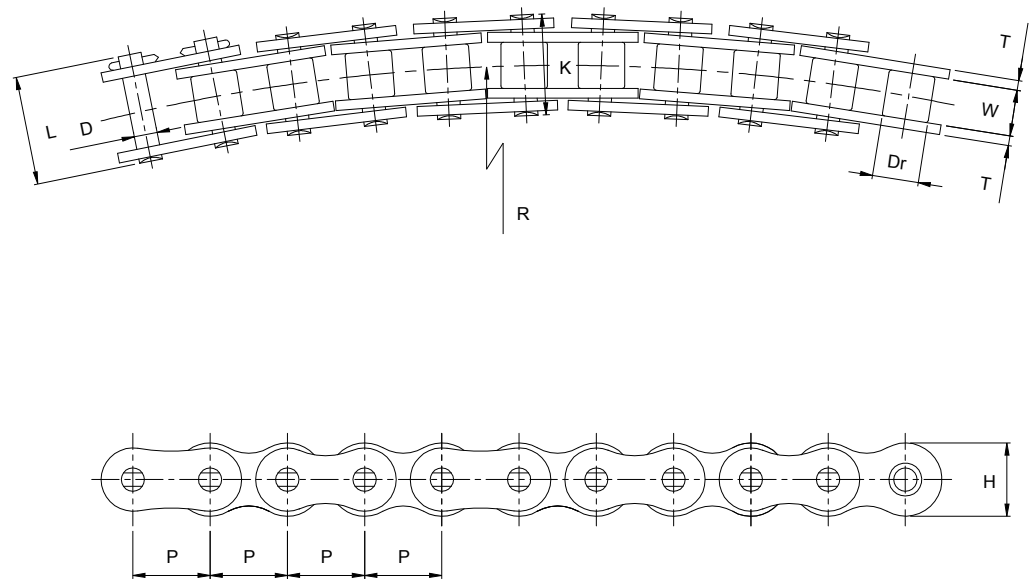
(Unit: mm)

BANDO Chain No.	PITCH P	INNER WIDTH W	ROLLER OUT DIA R	PIN				LINK PLATE		NORMAL NP SPECIFICATION		STAINLESS SPECIFICATION		APPROX. WEIGHT (KG/EA)
				D	L	L1	L2	WIDTH H	THICK T	AVERAGE ULTIMATE STRENGTH (kgf)	MAXIMUM ALLOWABLE LOAD (kg)	MAXIMUM ALLOWABLE LOAD (KG)	MAXIMUM ALLOWABLE LOAD (KG)	
BD40	12.70	7.95	7.94	3.97	18.20	8.25	9.95	12.0	1.5	1.700	270	45	70	0.64
BD50	15.875	9.53	10.16	5.09	22.30	10.30	12.00	15.0	2.0	2.800	440	70	105	1.04
BD60	19.05	12.70	11.91	5.96	28.10	12.85	15.25	18.10	2.4	4.100	640	105	160	1.53
BD80	25.40	15.88	15.88	7.94	35.50	16.25	19.25	24.10	3.2	7.000	1,090	180	270	2.66
BD100	31.75	19.05	19.05	9.54	42.60	19.75	22.85	30.10	4.0	11.000	1,740	260	-	3.99
BD120	38.10	25.40	22.23	11.11	53.80	24.90	28.90	36.20	4.8	15.400	2,440	390	-	5.93
BD140	44.45	25.40	25.40	12.71	58.60	26.90	31.70	42.20	5.6	20.500	3,300	470	-	7.49
BD160	50.80	31.75	28.58	14.29	67.70	31.85	35.85	48.20	6.4	26.300	4,170	650	-	10.1

BANDO Chain No.	ATTACHMENT							ATTACHMENT ADDITIONAL WEIGHT PER 1EA	
	C	C1	N	O	S	X	X5	A-SA	K-SK
								ATTACHMENT	ATTACHMENT
BD40	12.7	12.7	9.5	3.6	8	17.8	17.4	0.002	0.004
BD50	15.9	15.9	12.7	5.2	10.3	23.4	23.05	0.003	0.006
BD60	19.05	18.3	15.9	5.2	11.9	28.2	26.85	0.007	0.014
BD80	25.4	24.6	19.1	6.8	15.9	36.6	35.45	0.003	0.026
BD100	31.75	31.8	25.4	8.2	19.8	44.9	44	0.026	0.052
BD120	38.1	36.5	28.6	10.3	23	55.8	52.85	0.044	0.088
BD140	44.5	44.5	34.9	11.9	28.6	63.1	63.50	0.071	0.142
BD160	50.8	50.8	38.1	14.3	31.8	71.7	70.1	0.097	0.194

※ 1. BD40 ~ BD 100 link attachment out width is the same as the dimension
2. Stainless steel specification is different dimensions, please contact us.

CURVE ROLLER CHAIN



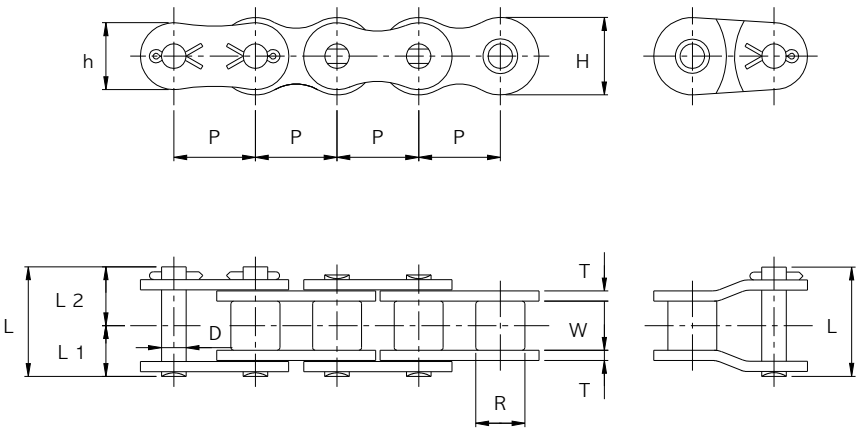
BD CURVE ROLLER CHAIN											(Unit: mm)
BANDO Chain No.	PITCH P	ROLLER OUTER DIA R	INNER WIDTH W	LINK PLATE		PIN		CONNECTION PIN LENGTH L	MINIMUM CURVE RADIUS R	AVERAGE ULTIMATE STRENGTH (kgf)	APPROX. WEIGHT (kg/m)
				THICK T	WIDTH H	D	K				
BD40 CU	12.7	7.94	7.95	1.5	11.7	3.59	16.45	17.7	350	1,100	0.61
BD50 CU	15.875	10.16	9.53	2	14.6	4.5	20.65	21.9	400	2,100	1.05
BD60 CU	19.05	11.91	12.7	2.4	17.5	5.09	25.75	36.9	500	3,000	1.48
BD80 CU	25.4	15.88	15.88	3.2	23	5.96	32.7	35.6	600	4,500	2.43

PLATED & STAINLESS CHAIN

PLATED CHAIN

Because it is processed the glossy plating (special nickel plating) on the roller chain, the strength and abrasion resistance is same as the roller chain. It is generally used optimally for corrosion-resistant and sanitary facilities.

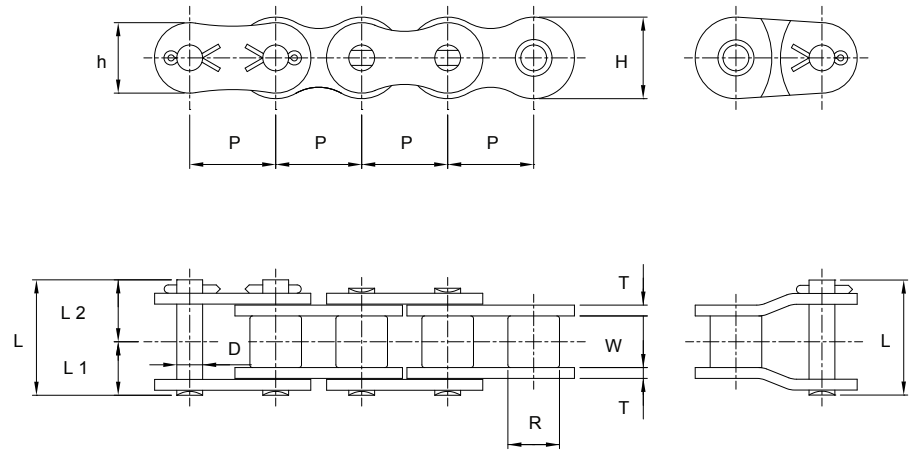
- Conditions that require sanitary : Office machinery, textile machinery, food machinery, printing machinery, etc.
- Outdoor wind and rain, where water drops fall, etc. Hot water medicine etc. In case of contact with corrosive atmosphere or direct food, please consider stainless steel chain or reinforced stainless roller chain.



BANDO Chain No.	KS NO.	PITCH P	ROLLER OUT DIA R	INNER WIDTH W	LINK PLATE			PIN				PIN TYPE	AVERAGE ULTIMATE STRENGTH (kgf)	MAXIMUM ALLOWABLES STRENGTH (kg)	APPROX. WEIGHT (kg/m)
					THICK T	WIDTH h	WIDTH H	D	L1	L2	L				
BD40NP	40	12.7	7.94	7.95	1.5	12	10.4	3.97	8.25	9.95	18.2	Rivet	1,950	370	0.64
BD50NP	50	15.875	10.16	9.53	2	15	13	5.09	10.3	12	22.3	"	3,200	650	1.04
BD60NP	60	19.05	11.91	12.7	2.4	18.1	15.6	5.96	12.85	15.25	28.1	"	4,500	900	1.53
BD80NP	80	25.4	15.88	15.88	3.2	24.1	20.8	7.94	16.27	19.25	35.52	"	8,000	1,500	2.66
BD100NP	100	31.75	19.05	19.05	4	30.1	26	9.54	19.75	22.85	42.6	"	12,000	2,300	3.99
BD120NP	120	38.1	22.23	25.4	4.8	36.2	31.2	11.11	24.9	28.9	53.8	"	17,000	3100	5.93

STAINLESS CHAIN

It is a roller chain made of 300 series stainless steel. dimension is manufactured according.

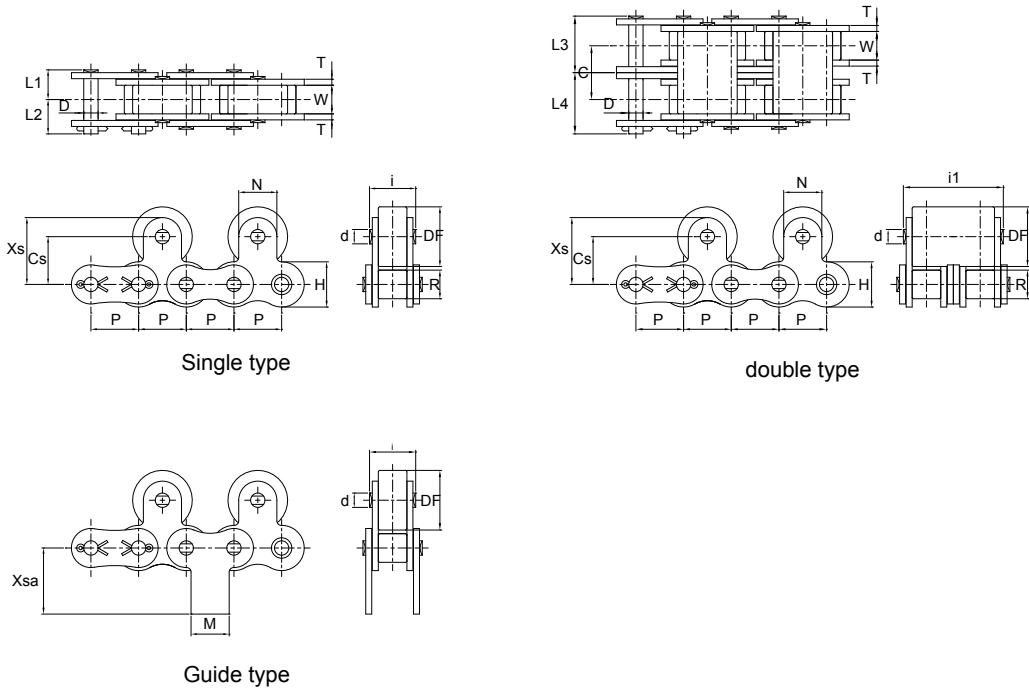


- Anti- corrosion : The corrosion resistance about various foods and medicines can be determined according to the use condition atmosphere but It can be used extensively even for conditions that can't be used for general electric chains.
- Heat resistance : In a normal atmosphere, it is possible to use from the minimum 20°c to the maximum 400 °c. Although it can be used at a higher temperature and a lower temperature than this, Please contact us for selection.
- Magnetic : The 300 series of Stainless does not partly have magnetic but stainless roller chain has partly magnetic because of cold -draw process.

(Unit: mm)

BANDO Chain No.	PITCH P	ROLLER OUT DIA R	INNER WIDTH W	LINK PLATE			PIN				MAXIMUM ALLOW-ABLE LOAD (kg)	APPROX. WEIGHT (kg/m)
				THICK T	WIDTH H	WIDTH h	D	L	L1	L2		
BD40SS	12.7	7.94	7.95	1.5	12	10.4	3.97	17.9	8.25	9.65	45	0.64
BD50SS	15.875	10.16	9.53	2	15	13	5.09	22.2	10.3	11.9	70	1.04
BD60SS	19.05	11.91	12.7	2.4	18.1	15.6	5.96	28.1	12.85	15.25	105	1.53
BD80SS	25.4	15.88	15.88	3.2	24.1	20.8	7.94	35.7	16.2	19.5	180	2.66
BD100SS	31.75	19.05	19.05	4	30.1	26	9.54	43.2	20.1	23.1	260	4.01
BD120SS	38.1	22.23	25.4	5	36.2	31.2	11.11	55.55	25.75	29.8	390	6.13
BD140SS	44.45	25.4	25.4	6	42.2	36.4	12.71	61.1	28.15	32.95	470	7.91
BD160SS	50.8	28.58	31.75	7	48.2	41.6	14.29	72.1	33.55	38.55	650	10.86
BD180SS	57.15	35.71	35.72	7.15	52.3	43.4	17.46	78.5	36.05	42.46	872	13.45
BD200SS	63.5	39.69	38.1	8	60.3	52	19.85	84.8	39:05:00	45.3	1,100	16.54
BD240SS	76.2	47.63	47.63	9.5	72.4	62.4	23.81	105.2	47.5	57.7	1,600	24.5

TOP-ROLLER CHAIN



(Unit: mm)

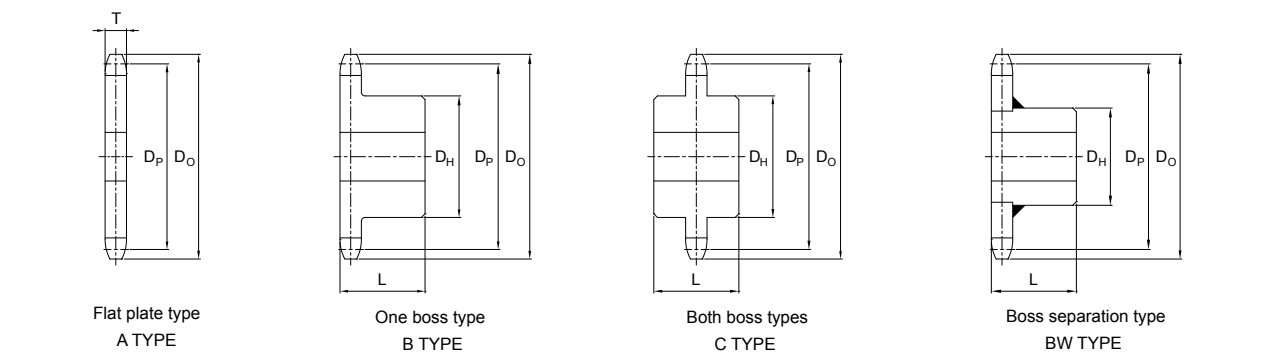
BANDO Chain No.	PITCH P	INNER WIDTH W	ROLLER OUT DIA R	PIN					LINK PLATE		C	AVERAGE ULTIMATE STRENGTH	APPROX-WEIGHT(kg/m)
				D	L1	L2	L3	L4	WIDTH H	THICK T			
BD40	12.7	7.95	7.94	3.97	8.25	9.95	-	-	12	1.5	-	1,920	370
BD50	15.875	9.53	10.16	5.09	10.3	12	-	-	15	2	-	3,200	650
BD60	19.05	12.7	11.91	5.96	12.85	15.25	-	-	18.1	2.4	-	4.4	900
BD80	25.4	15.88	15.88	7.94	16.25	19.25	-	-	24.1	3.2	—	7,500	1,500
BD100	31.75	19.05	19.05	9.54	19.75	22.85	-	-	30.1	4	-	11,500	2,300
BD40-2	12.7	7.95	7.94	3.97	-	-	15.45	17.15	12	1.5	14.4	3,900	630
BD50-2	15.875	9.53	10.16	5.09	-	-	19.35	21.15	15	2	18.1	6,400	1100
BD60-2	19.05	12.7	11.91	5.96	-	-	24.25	26.75	18.1	2.4	22.8	9,000	1530
BD80-2	25.4	15.88	15.88	7.94	-	-	30.9	33.9	24.1	3.2	29.3	16,000	2,550
BD100-2	31.75	19.05	19.05	9.54	-	-	37.7	40.8	30.1	4	35.8	24,000	3,910

(Unit: mm)

ATTACHMENT										APPROX WEIGHT (kg/m)
DF	Cs	N	Xs	Xsa	M	I	I1	d		
15.88	12.7	9.5	17.45	17.4	9.5	13.2	-	4.03		1.3
19.05	15.9	12.7	22.25	23.05	12.7	16.2	-	5.2		1.9
22.23	18.3	15.9	26.25	26.85	15.9	20.6	-	6.1		2.9
28.58	24.6	19.1	34.15	35.45	19.1	25.1	-	8.07		4.8
39.69	31.8	25.4	44.5	44	25.4	31	-	9.73		7.9
15.88	12.7	9.5	17.45	17.4	9.5	-	28.3	4.03		2.6
19.05	15.9	12.7	22.25	23.05	12.7	-	34.3	5.2		3.8
22.23	18.3	15.9	26.25	26.85	15.9	-	43.4	6.1		5.8
28.58	24.6	19.1	34.15	35.45	19.1	-	55	8.07		9.6
39.69	31.8	25.4	44.5	44	25.4	-	66.9	9.73		15.8

※We also produce every link top roller and other special specifications of the above specification. Please contact us.

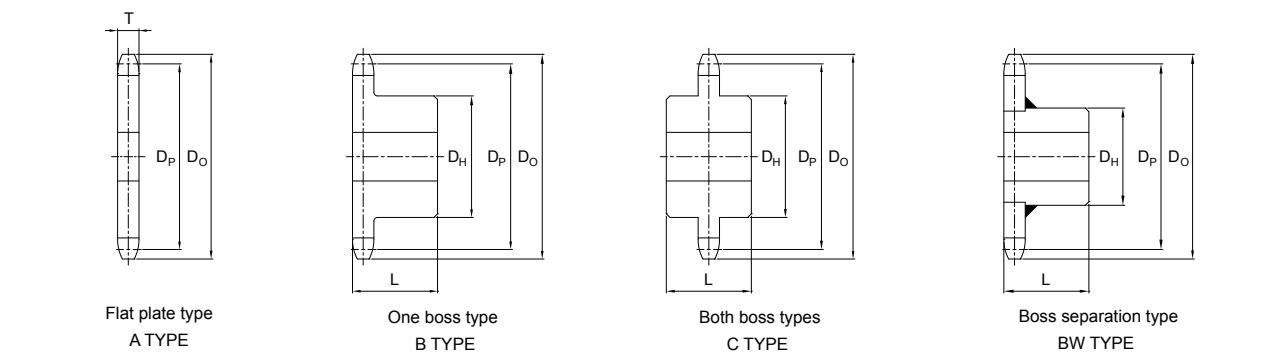
BD 40 STANDARD SPROCKET



TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	47	41.1	28	25	S45C
11	51	45.08	30	25	
12	55	49.07	34	25	
13	59	53.07	38	25	
14	63	57.07	43	30	
15	67	61.08	46	30	
16	71	65.1	51	30	
17	76	69.12	54	30	
18	80	73.14	57	30	
19	84	77.16	60	30	
20	88	81.18	60	30	
21	92	85.21	60	32	
22	96	89.24	70	32	
23	100	93.27	70	32	
24	104	97.3	70	32	
25	108	101.33	70	32	
26	112	105.36	70	35	
27	116	109.4	70	35	
28	120	113.43	85	35	
29	124	117.46	85	35	
30	128	121.5	85	35	
31	133	125.53	88	40	
32	137	129.57	88	40	
33	141	133.61	88	40	
34	145	137.64	88	40	
35	149	141.68	88	40	
36	153	145.72	88	40	
37	157	149.75	88	40	S45C
38	161	153.79	88	40	
39	165	157.83	88	40	
40	169	161.87	88	40	
41	173	165.91	98	40	
42	177	169.95	98	40	
43	181	173.98	98	40	
44	185	178.02	98	40	
45	189	182.06	98	40	
46	193	186.1	98	40	
47	197	190.14	98	40	
48	201	194.18	98	40	
49	205	198.22	98	40	
50	209	202.26	98	40	
51	214	206.3	108	45	
52	218	210.34	108	45	
53	222	214.38	108	45	
54	226	218.42	108	45	
55	230	222.46	108	45	
56	234	226.5	108	45	
57	238	230.54	108	45	
58	242	234.58	108	45	
59	246	238.62	108	45	
60	250	242.66	108	45	
61	254	246.7	108	45	
62	258	250.74	108	45	
63	262	254.78	108	45	
64	266	258.83	108	45	
65	270	262.87	108	45	
66	274	266.91	108	45	
67	278	270.95	108	45	
68	282	274.99	108	45	
69	286	279.03	108	45	
70	290	283.07	108	45	
71	294	287.11	108	45	
72	299	291.16	108	45	
73	303	295.2	108	45	
74	307	299.24	108	45	
75	311	303.28	108	45	
76	315	307.32	108	45	
77	319	311.36	108	45	
78	323	315.4	108	45	
79	327	319.44	108	45	
80	331	323.49	108	45	
81	335	327.53	108	45	
82	339	331.57	108	45	
83	343	335.61	108	45	
84	347	339.65	108	45	
85	351	343.69	108	45	
86	355	347.73	108	45	
87	359	351.78	108	45	
88	363	355.82	108	45	
90	371	363.9	108	45	

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

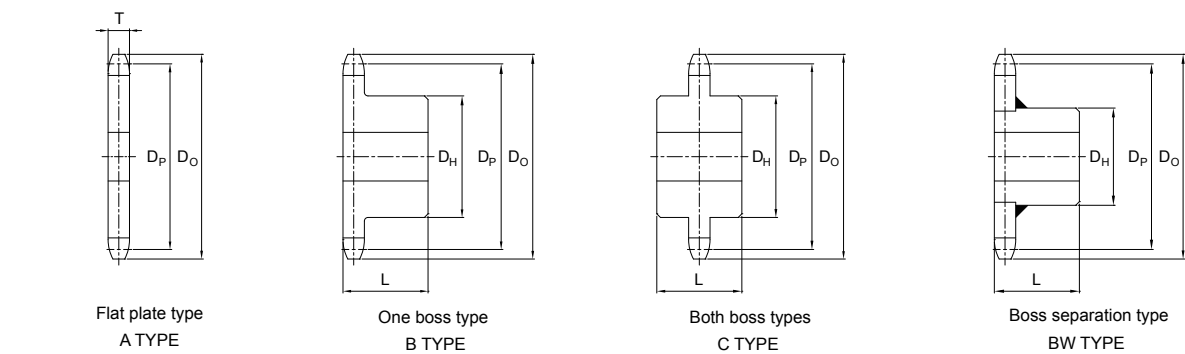
BD 50 STANDARD SPROCKET



TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	58	51.38	35	30	S45C
11	64	56.35	37	30	
12	69	61.34	43	30	
13	74	66.34	48	35	
14	79	71.34	53	35	
15	84	76.35	58	35	
16	89	81.37	63	40	
17	94	86.39	65	40	
18	100	91.42	70	40	
19	105	96.45	70	40	
20	110	101.48	70	40	
21	115	106.51	75	40	
22	120	111.55	75	40	
23	125	116.58	75	40	
24	130	121.62	75	40	
25	135	126.66	90	40	
26	140	131.7	90	40	
27	145	136.74	90	40	
28	150	141.79	100	40	
29	155	146.83	100	40	
30	161	151.87	100	40	
31	166	156.92	100	40	
32	171	161.96	100	40	
33	176	167.01	100	40	
34	181	172.05	100	40	
35	186	177.1	100	40	
36	191	182.14	100	40	
37	196	187.19	100	40	
38	201	192.24	100	40	
39	206	197.29	100	40	
40	211	202.33	100	40	S45C
41	216	207.38	100	40	
42	221	212.43	100	40	
43	226	217.48	100	40	
44	231	222.53	100	40	
45	237	227.58	100	40	
46	242	232.63	100	40	
47	247	237.68	100	40	
48	252	242.73	100	40	
49	257	247.78	100	40	
50	262	252.83	100	40	
51	267	257.88	100	40	
52	272	262.92	100	40	
53	277	267.97	100	40	
54	282	273.02	100	40	
55	287	278.08	100	40	
56	292	283.13	100	40	
57	297	288.18	100	40	
58	302	293.23	100	40	
59	307	298.28	100	40	
60	312	303.33	100	40	
61	318	308.38	100	40	
62	323	313.43	100	40	
63	328	318.48	100	40	
64	333	323.53	100	40	
65	338	328.58	100	40	
66	343	333.64	100	40	
67	348	338.69	100	40	
68	353	343.74	100	40	
69	358	348.79	100	40	
70	363	353.84	100	40	
71	368	358.89	100	40	
72	373	363.94	100	40	
73	378	369	100	40	
74	383	374.05	100	40	
75	388	379.1	100	40	
76	393	384.15	100	40	
77	398	389.2	100	40	
78	403	394.25	100	40	
79	409	399.31	100	40	
80	414	404.36	100	40	
81	419	409.41	100	40	
82	424	414.46	100	40	
83	429	419.51	100	40	
84	434	424.57	100	40	
85	439	429.62	100	40	
86	444	434.67	100	40	
87	449	439.72	100	40	
88	454	444.77	100	40	
90	464	454.88	100	40	

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 60 STANDARD SPROCKET



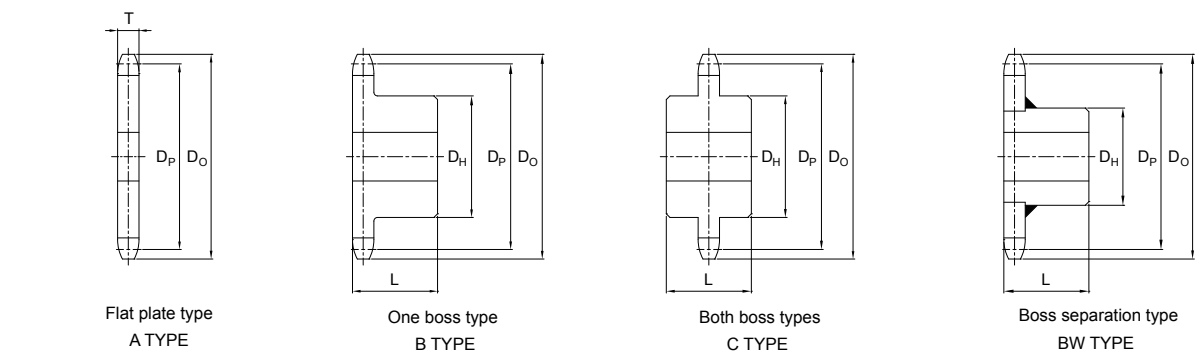
(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	70	61.65	39	40	S45C
11	76	67.62	45	40	
12	83	73.6	51	40	
13	89	79.6	57	40	
14	95	85.61	62	40	
15	101	91.62	68	40	
16	107	97.65	76	42	
17	113	103.67	80	42	
18	119	109.71	80	42	
19	126	115.74	80	42	
20	132	121.78	85	42	
21	138	127.82	85	45	
22	144	133.86	90	45	
23	150	139.9	90	45	
24	156	145.95	90	45	
25	162	151.99	100	45	
26	168	158.04	100	50	
27	174	164.09	100	50	
28	180	170.14	120	50	
29	187	176.2	120	50	
30	193	182.25	120	50	
31	199	188.3	127	50	
32	205	194.35	127	50	
33	211	200.41	127	50	
34	217	206.46	127	50	
35	223	212.52	127	50	
36	229	218.57	127	50	
37	235	224.63	127	50	
38	241	230.69	127	50	
39	247	236.74	127	50	
40	253	242.8	127	50	
41	260	248.86	127	50	
42	266	254.92	127	50	
43	272	260.98	127	50	
44	278	267.03	127	50	
45	284	273.09	127	50	
46	290	279.15	137	50	
47	296	285.21	137	50	
48	302	291.27	137	50	
49	308	297.33	137	50	

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	314	303.39	137	50	S45C
51	320	309.45	137	55	
52	326	315.51	137	55	
53	332	321.57	137	55	
54	338	327.63	137	55	
55	345	333.69	137	55	
56	351	339.75	137	55	
57	357	345.81	137	55	
58	363	351.87	137	55	
59	369	357.93	137	55	
60	375	363.99	137	55	
61	381	370.06	137	55	
62	387	376.12	137	55	
63	393	382.18	137	55	
64	399	388.24	137	55	
65	405	394.3	137	55	
66	411	400.36	137	55	
67	417	406.42	137	55	
68	423	412.49	137	55	
69	430	418.55	137	55	
70	436	424.61	137	55	
71	442	430.67	137	55	
72	448	436.73	137	55	
73	454	442.79	137	55	
74	460	448.86	137	55	
75	466	454.92	137	55	
76	472	460.98	137	55	
77	478	467.04	137	55	
78	484	473.1	137	55	
79	490	479.17	137	55	
80	496	485.23	137	55	
81	502	491.29	137	55	
82	508	497.35	137	55	
83	514	503.42	137	55	
84	521	509.48	137	55	
85	527	515.54	137	55	
86	533	521.6	137	55	
87	539	527.67	137	55	
88	545	533.73	137	55	
90	557	545.85	137	55	

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 80 STANDARD SPROCKET



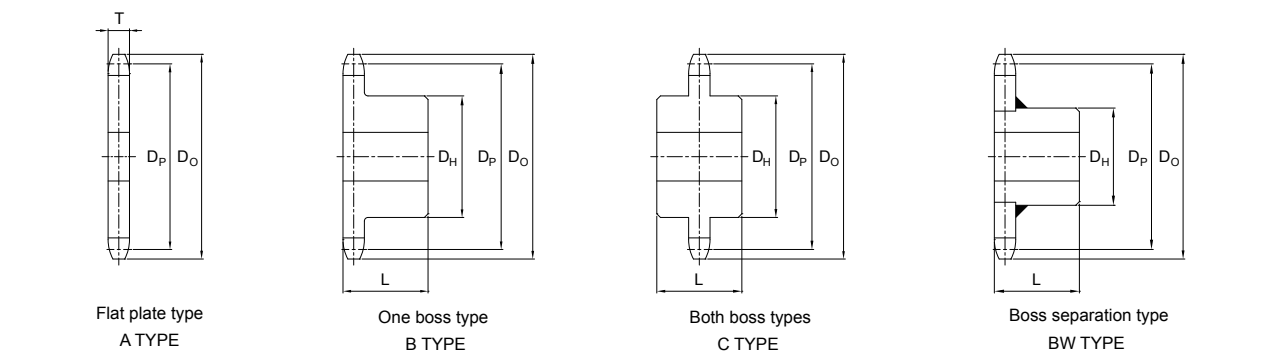
(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	93	82.19	55	50	S45C
11	102	90.16	60	50	
12	110	98.14	69	50	
13	118	106.14	77	50	
14	127	114.15	80	50	
15	135	122.17	90	50	
16	143	130.2	90	50	
17	151	138.23	95	50	
18	159	146.27	95	50	
19	167	154.32	95	50	
20	176	162.37	110	50	
21	184	170.42	110	50	
22	192	178.48	110	50	
23	200	186.54	110	50	
24	208	194.6	110	50	
25	216	202.66	110	50	
26	224	210.72	110	50	
27	233	218.79	120	50	
28	241	226.86	120	50	
29	249	234.93	120	50	
30	257	243	120	50	
31	265	251.07	147	60	
32	273	259.14	147	60	
33	281	267.21	147	60	
34	289	275.29	147	60	
35	297	283.36	147	60	
36	306	291.43	147	60	
37	314	299.51	147	60	
38	322	307.58	147	60	
39	330	315.66	147	60	
40	338	323.74	147	60	
41	346	331.81	147	60	
42	354	339.89	147	60	
43	362	347.97	147	60	
44	370	356.04	147	60	
45	378	364.12	147	60	
46	387	372.2	157	60	
47	395	380.28	157	60	
48	403	388.36	157	60	
49	411	396.44	157	60	

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	419	404.52	157	60	S45C
51	427	412.6	157	60	
52	435	420.68	157	60	
53	443	428.76	157	60	
54	451	436.84	157	60	
55	459	444.92	157	60	
56	468	453	157	60	
57	476	461.08	157	60	
58	484	469.16	157	60	
59	492	477.25	157	60	
60	500	485.33	157	60	
61	508	493.41	157	60	
62	516	501.49	157	60	
63	524	509.57	157	60	
64	532	517.65	157	60	
65	540	525.73	157	60	
66	548	533.82	157	60	
67	557	541.9	157	60	
68	565	549.98	157	60	
69	573	558.06	157	60	
70	581	566.15	157	60	
71	589	574.23	157	60	
72	597	582.31	157	60	
73	605	590.39	157	60	
74	613	598.47	157	60	
75	621	606.56	157	60	
76	629	614.64	157	60	
77	637	622.72	157	60	
78	646	630.81	157	60	
79	654	638.89	157	60	
80	662	646.97	157	60	
81	670	655.06	157	60	
82	678	663.14	157	60	
83	686	671.22	157	60	
84	694	679.31	157	60	
85	702	687.39	157	60	
86	710	695.47	157	60	
87	718	703.55	157	60	
88	726	711.64	157	60	
90	743	727.8	157	60	

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 100 STANDARD SPROCKET



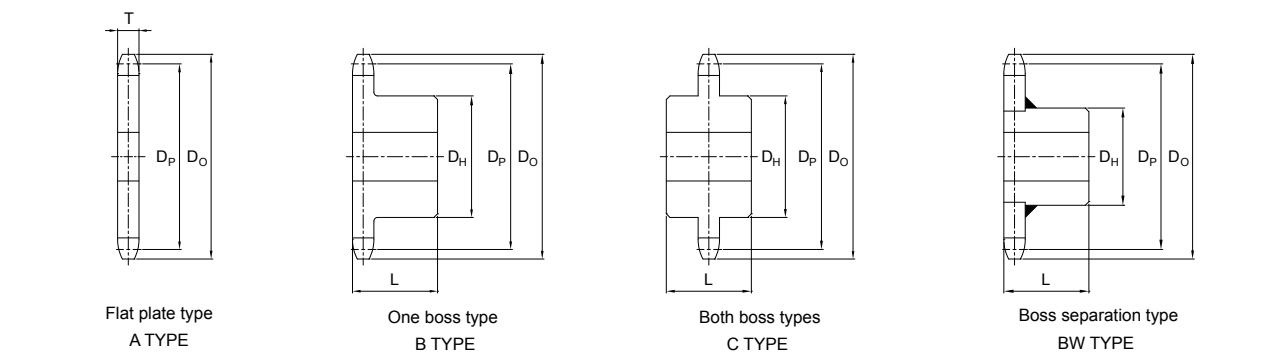
(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	116	102.74	65	70	S45C
11	127	112.7	76	70	
12	138	122.67	86	70	
13	148	132.67	96	70	
14	158	142.68	100	70	
15	168	152.71	100	70	
16	179	162.74	110	75	
17	189	172.79	110	75	
18	199	182.84	110	75	
19	209	192.9	110	75	
20	220	202.96	110	75	
21	230	213.03	110	75	
22	240	223.1	120	75	
23	250	233.17	120	75	
24	260	243.25	120	75	
25	270	253.32	120	75	
26	281	263.4	120	75	
27	291	273.49	120	75	
28	301	283.57	120	75	
29	311	293.66	120	75	
30	321	303.75	120	75	
31	331	313.83	130	75	
32	341	323.92	130	75	
33	352	334.01	130	75	
34	362	344.11	130	75	
35	372	354.2	130	75	
36	382	364.29	130	75	
37	392	374.38	140	80	S45C
38	402	384.48	140	80	
39	412	394.57	140	80	
40	422	404.67	140	80	
41	433	414.77	150	90	
42	443	424.86	150	90	
43	453	434.96	150	90	
44	463	445.06	150	90	
45	473	455.16	150	90	
46	483	465.25	150	90	
47	493	475.35	150	90	
48	503	485.45	150	90	
49	514	495.55	150	90	

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	524	505.65	150	90	S45C
51	534	515.75	150	90	
52	544	525.85	150	90	
53	554	535.95	150	90	
54	564	546.05	150	90	
55	574	556.15	150	90	
56	584	566.25	150	90	
57	595	576.35	150	90	
58	605	586.45	150	90	
59	615	596.56	150	90	
60	625	606.66	150	90	
61	635	616.76	150	90	
62	645	626.86	150	90	
63	655	636.96	150	90	
64	665	647.06	150	90	
65	675	657.17	150	90	
66	686	667.27	150	90	
67	696	677.37	150	90	
68	706	687.48	150	90	
69	716	697.58	150	90	
70	726	707.68	150	90	
71	736	717.78	150	90	
72	746	727.89	150	90	
73	756	737.99	150	90	
74	766	748.09	150	90	
75	777	758.2	150	90	
76	787	768.3	150	90	
77	797	778.41	150	90	
78	807	788.51	150	90	
79	817	798.61	150	90	
80	827	808.71	150	90	S45C
81	837	818.82	150	90	
82	847	828.92	150	90	
83	857	839.03	150	90	
84	868	849.13	150	90	
85	878	859.23	150	90	
86	888	869.34	150	90	
87	898	879.44	150	90	
88	908	889.55	150	90	
90	928	909.75	150	90	

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 120 STANDARD SPROCKET



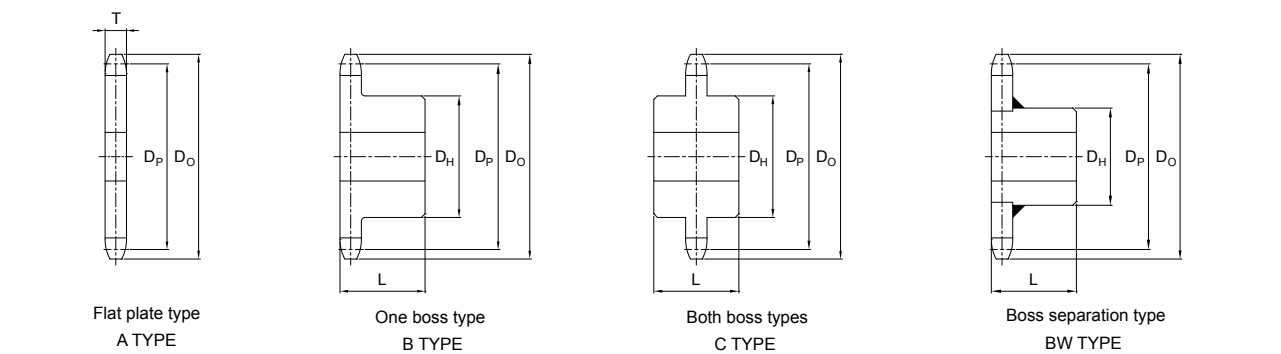
(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	140	123.29	80	70	S45C
11	153	135.24	90	70	
12	165	147.21	100	70	
13	177	159.2	110	75	
14	190	171.22	120	75	
15	202	183.25	120	75	
16	214	195.29	130	80	
17	227	207.35	130	80	
18	239	219.41	130	80	
19	251	231.48	130	80	
20	263	243.55	130	80	
21	276	255.63	130	80	
22	288	267.72	130	80	
23	300	279.8	130	80	
24	312	291.9	130	80	
25	324	303.99	130	80	
26	337	316.09	130	80	
27	349	328.19	130	80	
28	361	340.29	130	80	
29	373	352.39	130	80	
30	385	364.5	130	80	
31	398	376.6	145	80	
32	410	388.71	145	80	
33	422	400.82	145	80	
34	434	412.93	145	80	
35	446	425.04	145	80	
36	458	437.15	145	80	
37	470	449.26	145	80	
38	483	461.38	157	80	S45C
39	495	473.49	157	80	
40	507	485.6	157	80	
41	519	497.72	157	80	
42	531	509.84	157	80	
43	543	521.95	157	80	
44	556	534.07	157	80	
45	568	546.19	157	80	
46	580	558.3	157	80	
47	592	570.42	157	80	
48	604	582.54	157	80	
49	616	594.66	157	80	

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	628	606.78	157	80	S45C
51	641	618.9	157	80	
52	653	631.2	157	80	
53	665	643.14	157	80	
54	677	655.26	157	80	
55	689	667.38	157	80	
56	701	679.5	157	80	
57	713	691.63	157	80	
58	726	703.75	157	80	
59	738	715.87	157	80	
60	750	727.99	157	80	
61	762	740.11	157	80	
62	774	752.23	157	80	
63	786	764.35	157	80	
64	798	776.48	157	80	
65	811	788.6	157	80	
66	823	800.72	157	80	
67	835	812.85	157	80	
68	847	824.97	157	80	
69	859	837.1	157	80	
70	871	849.22	157	80	
71	883	861.34	157	80	
72	896	873.47	157	80	
73	908	885.59	157	80	
74	920	897.71	157	80	
75	932	909.84	157	80	
76	944	921.86	157	80	
77	956	934.09	157	80	
78	968	946.21	157	80	
79	980	958.33	157	80	
80	993	970.46	157	80	S45C
81	1005	982.58	157	80	
82	1017	994.71	157	80	
83	1029	1006.83	157	80	
84	1014	1018.96	157	80	
85	1053	1031.08	157	80	
86	1065	1043.2	157	80	
87	1078	1055.33	157	80	
88	1090	1067.46	157	80	
90	1114	1091.71	157	80	

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 140 STANDARD SPROCKET



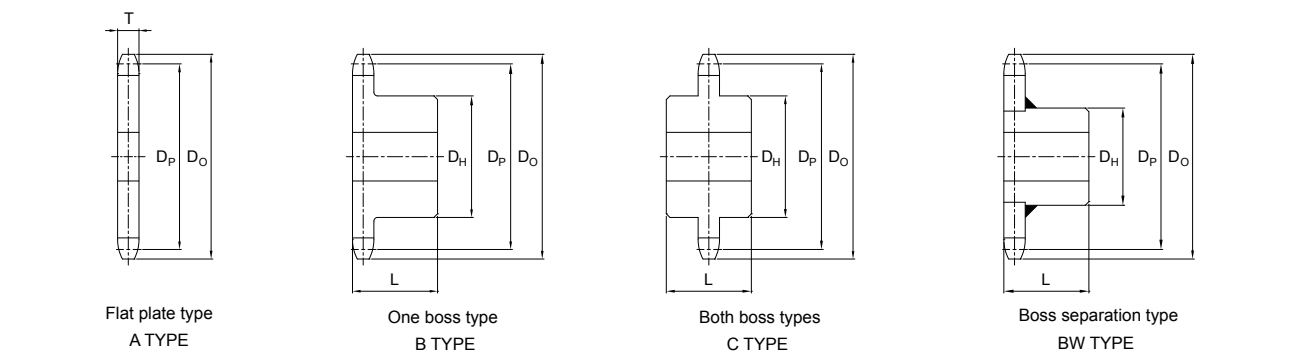
(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	163	143.84	100	70	S45C
11	178	157.78	100	70	
12	193	171.74	105	70	
13	207	185.74	105	70	
14	221	199.76	115	80	
15	236	213.79	115	80	
16	250	227.84	120	80	
17	264	241.91	120	80	
18	279	255.98	120	80	
19	293	270.06	130	85	
20	307	284.15	130	85	
21	322	298.24	130	85	
22	336	312.34	140	100	
23	350	326.44	140	100	
24	364	340.54	140	100	
25	379	354.65	150	110	
26	393	368.77	150	110	
27	407	382.88	150	110	
28	421	397	150	110	
29	435	411.12			
30	450	425.24	150	110	
31	464	439.37	150	110	
32	478	453.49			
33	492	467.62	150	110	
34	506	481.75			
35	521	495.88			
36	535	510.01			
37	549	524.14			
38	563	538.27			
39	577	552.4			
40	591	566.54			
41	606	580.67	165	120	
42	620	594.81			
43	634	608.94			
44	648	623.08			
45	662	637.22			
46	676	651.35	165	120	
47	691	665.49			
48	705	679.63	165	120	
49	719	693.77			

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	733	707.91	190	140	S45C
51	747	722.05			
52	762	736.19			
53	776	750.33			
54	790	764.47	190	140	
55	804	778.61			
56	818	792.75			
57	832	806.9			
58	847	821.04			
59	861	835.18			
60	875	849.32	190	140	
61	889	863.46			
62	903	877.61			
63	917	891.75			
64	931	905.89			
65	946	920.03			
66	960	934.18			
67	974	948.32			
68	988	962.47			
69	1002	976.61			
70	1016	990.75			
71	1031	1004.9			
72	1045	1019.04			
73	1059	1033.19			
74	1073	1047.33			
75	1087	1061.47			
76	1101	1075.62			
77	1116	1089.77			
78	1130	1103.91			
79	1144	1118.06			
80	1158	1132.2			
81	1172	1146.35			
82	1186	1160.49			
83	1200	1174.64			
84	1215	1188.78			
85	1229	1202.93			
86	1243	1217.07			
87	1257	1231.22			
88	1271	1245.36			
90	1300	1273.66			

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 160 STANDARD SPROCKET



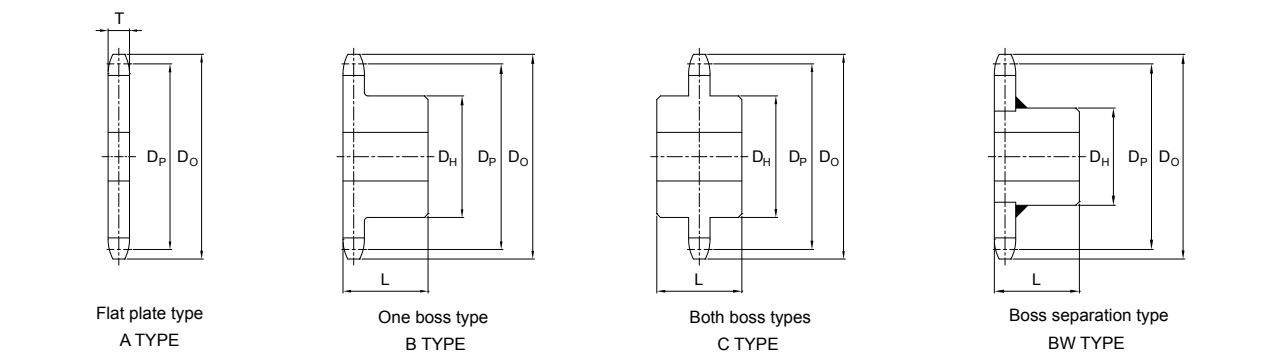
(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	186	164.39	100	70	S45C
11	204	180.31	120	80	
12	220	196.28	120	80	
13	237	212.27	130	90	
14	253	228.3	130	90	
15	269	244.33	130	90	
16	286	260.39	130	90	
17	302	276.46	140	100	
18	319	292.55	140	100	
19	335	308.64	140	100	
20	351	324.74	140	100	
21	368	340.84	140	100	
22	384	356.96	187	110	
23	400	373.7	187	110	
24	416	389.19	187	110	
25	433	405.32	187	110	
26	449	421.45	197	110	
27	465	437.58	197	110	
28	481	453.72	197	110	
29	498	469.85	197	110	
30	514	485.99	197	110	
31	530	502.13	207	120	
32	546	518.28	207	120	
33	562	534.42	207	120	
34	579	550.57	207	120	
35	595	566.71	207	120	
36	611	582.86	207	120	
37	627	599.01	207	120	
38	644	615.17	207	120	
39	660	631.32	207	120	
40	676	647.47	207	120	
41	692	663.63	217	130	
42	708	679.78	217	130	
43	725	695.93	217	130	
44	741	712.09	217	130	
45	757	728.25	217	130	
46	773	744.4	227	140	
47	789	760.56	227	140	
48	806	776.72	227	140	
49	822	792.88	227	140	

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	838	809.04	227	140	S45C
51	854	825.2	227	140	
52	870	841.36	227	140	
53	887	857.52	227	140	
54	903	873.68	227	140	
55	919	889.84	227	140	
56	935	906	237	140	
57	951	922.17	237	140	
58	967	938.33	237	140	
59	984	954.49	237	140	
60	1000	970.65	237	140	
61	1016	986.82	237	140	
62	1032	1002.98	237	140	
63	1048	1019.14	237	140	
64	1065	1035.3	237	140	
65	1081	1051.47	237	140	
66	1097	1067.63			
67	1113	1083.8			
68	1129	1099.96			
69	1145	1116.13			
70	1162	1132.29			
71	1178	1148.46			
72	1194	1164.62			
73	1210	1180.79			
74	1226	1196.95			
75	1243	1213.11			
76	1259	1229.28			
77	1275	1245.45			
78	1291	1261.61			
79	1307	1277.78			
80	1323	1293.94			
81	1340	1310.11			
82	1356	1326.28			
83	1372	1342.45			
84	1388	1358.61			
85	1404	1374.78			
86	1420	1390.94			
87	1437	1407.11			
88	1453	1423.27			
90	1485	1455.61			

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 200 STANDARD SPROCKET



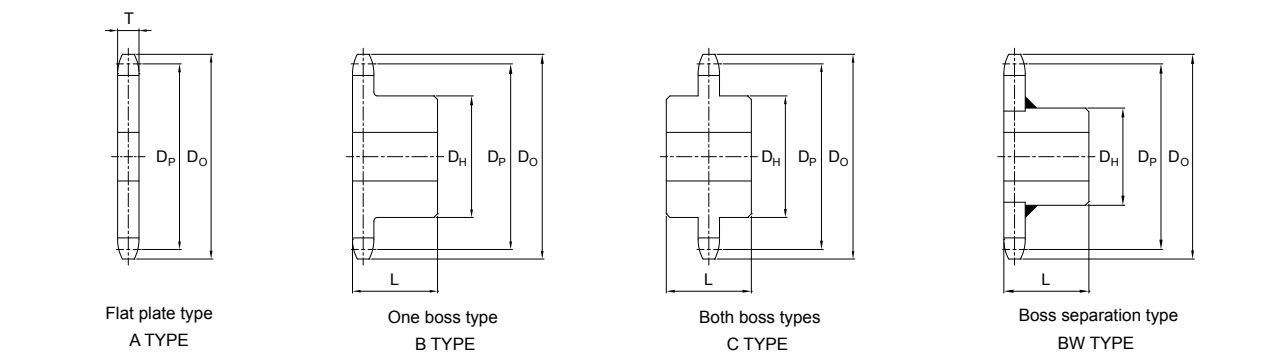
(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	254	225.39	152		S45C
11	275	245.34	173		
12	296	265.34	193		
13	316	285.37	214		
14	337	305.42	235		
15	357	325.49	255		
16	378	345.58	275		
17	398	365.68	296		
18	419	385.79	316		
19	439	405.92	337		
20	459	426.05	357		
21	480	446.2	377		
22	500	466.34	398		
23	520	486.49	418		
24	541	506.65	438		
25	561	526.81	459		
26	581	546.98	479		
27	602	567.14	499		
28	622	587.32	520		
29	642	607.49	540		
30	663	627.67	560		
31	683	647.85	580		
32	703	668.03	601		
33	723	688.21	621		
34	744	708.39	641		
35	764	728.58	662		
36	784	748.77	682		
37	804	768.96	702		
38	825	789.15	722		
39	845	809.34	743		
40	865	829.53	763		
41	885	849.73	783		
42	906	869.92	803		
43	826	890.11	824		
44	846	910.31	844		
45	866	930.5	864		
46	987	950.7	884		
47	1007	970.9	905		
48	1027	991.1	925		
49	1047	1011.3	945		

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	1068	1031.5	965		S45C
51	1088	1051.7	986		
52	1108	1071.9	1006		
53	1128	1092.1	1026		
54	1149	1112.3	1046		
55	1169	1132.5	1066		
56	1189	1152.71	1087		
57	1209	1172.91	1107		
58	1230	1193.11	1127		
59	1250	1213.31	1147		
60	1270	1233.52	1168		
61	1290	1253.72	1188		
62	1310	1273.92	1208		
63	1331	1294.13	1228		
64	1351	1314.34	1249		
65	1371	1334.54	1269		
66	1391	1354.75	1289		
67	1412	1374.95	1309		
68	1432	1395.16	1329		
69	1452	1415.36	1350		
70	1472	1435.57	1370		
71	1493	1455.78	1390		
72	1513	1475.98	1410		
73	1533	1496.19	1431		
74	1553	1516.39	1451		
75	1573	1536.6	1471		
76	1594	1556.81	1491		
77	1614	1577.02	1511		
78	1634	1597.22	1532		
79	1654	1617.43	1552		
80	1674	1637.64	1572		
81	1695	1657.85	1592		
82	1715	1678.06	1613		
83	1735	1698.26	1633		
84	1755	1718.47	1653		
85	1776	1738.67	1675		
86	1796	1758.89	1693		
87	1816	1779.09	1714		
88	1836	1799.3	1734		
90	1856	1819.51	1754		

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

BD 240 STANDARD SPROCKET



(Unit: mm)

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
10	305	270.47	183		S45C
11	330	294.41	207		
12	355	318.41	232		
13	380	342.44	257		
14	404	366.50	282		
15	429	390.59	306		
16	453	414.70	331		
17	478	538.82	355		
18	502	462.95	380		
19	527	487.11	404		
20	551	511.26	429		
21	576	535.43	453		
22	600	559.61	477		
23	625	583.79	502		
24	649	607.98	526		
25	673	632.17	551		
26	698	656.37	575		
27	722	680.57	599		
28	746	704.78	624		
29	771	728.99	648		
30	795	753.20	672		
31	819	777.42	697		
32	844	801.63	721		
33	868	825.86	745		
34	892	850.07	770		
35	917	874.30	494		
36	941	898.52	818		
37	965	922.75	813		
38	990	946.98	867		
39	1014	971.21	891		
40	1038	995.44	916		
41	1063	1019.67	940		
42	1087	1043.90	964		
43	1111	1068.13	988		
44	1135	1092.37	1013		
45	1160	1116.60	1037		
46	1184	1140.84	1061		
47	1208	1165.08	1086		
48	1233	1189.32	1110		
49	1257	1213.56	1134		

TEETH NT	OUT DIA. Do	PITCH DIA. Dp	MAXIMUM BOSS		MATERIAL
			DIA Dh	LENGTH L	
50	1281	1237.80	1158		S45C
51	1305	1262.04	1183		
52	1330	1286.28	1207		
53	1354	1310.52	1231		
54	1378	1334.76	1256		
55	1430	1359.00	1280		
56	1427	1383.25	1304		
57	1451	1407.49	1328		
58	1475	1431.74	1353		
59	1500	1455.98	1377		
60	1524	1480.22	1401		
61	1548	1504.47	1426		
62	1573	1528.71	1450		
63	1597	1552.96	1474		
64	1621	1577.20	1498		
65	1645	1601.45	1523		
66	1670	1625.70	1542		
67	1694	1649.94	1571		
68	1718	1674.19	1595		
69	1742	1698.44	1620		
70	1767	1722.68	1644		
71	1791	1746.93	1668		
72	1815	1771.18	1693		
73	1840	1795.42	1717		
74	1864	1819.67	1741		
75	1888	1843.92	1765		
76	1912	1868.17	1790		
77	1937	1892.42	1814		
78	1961	1916.67	1838		
79	1985	1940.94	1862		
80	2009	1965.17	1887		
81	2034	1989.41	1911		
82	2058	2013.67	1935		
83	2082	2037.67	1960		
84	2106	2062.16	1984		
85	2131	2086.51	2008		
86	2155	2110.66	2032		
87	2179	2134.91	2057		
88	2204	2159.17	2081		
90	2228	2183.41	2105		

※ Since the maximum shaft diameter indicates a general case, decide on common sense in general machine design.

HOW TO ORDER

Please refer to the information below prior to ordering or calling as your questions may be answered here.

1. CHAIN

- 1) Chain No. (e.g. BC10150-S)
- 2) Attachment type and interval (e.g. A2 / Every 2 links)
- 3) In case of standard type - the name of series (e.g. Alloy, Carbon..)
- 4) In case of special type - specified the parts of difference
- 5) Chain length

2. SPROCKET

- 1) Chain No. and line No. (e.g. BC10150-S, 2 lines)
- 2) No. of Teeth (e.g. 8NT)
- 3) Type (e.g. CWI)
- 4) Bore DIA. (E.g. Ø60H8)
- 5) Key home (e.g. Horizontal key)
- 6) Special specifications

3. NOTE

If you would like us to select a proper conveyor chain and sprocket, please inform us with the following information.

- 1) Use-site and Purpose Conveyor title, format, etc.
- 2) Transport Materials Name, size, weight, gravity
- 3) Capacity Average and Maximum
- 4) Conveying distance Horizontal, vertical, inclination, etc.
- 5) Operating Environment Corrosion, abrasion, heat, chemicals, dust, etc.
- 6) Operating time Hours/day
- 7) Operating method Continuous, intermittent, reverse
- 8) Lubrication Necessary or not

