

Company Profile

Company Name	Yoshino Rubber Industrial Co.,LTD.
Establishment	May 29, 1963
Capital Stock	30 million yen
Company director	Chairman and Representative Director Toru Itoh President and Representative Director Yoshihide Itoh Managing Director Yaeko Matsuda
Correspondent Banks	Mizuho Bank, Sumitomo Mitsui Bank, Osaka City Shinkin Bank, Kyoto Bank, Shoko Chukin Bank, Japan Finance Corporation
Construction License Number	Osaka Prefectural Governor's License (Special) No.74728
Employee	120



Head office



Head office second building

Business items



Conveyor belt

- General belt
- Special belt(belt with a cleat)
- S-CON
- NIMAIME-KUN
- SUPER-CONVEYOR



Conveyor System

- Design and production for the conveyor system
- Maintenance work



Parts of conveyor

- Ecoron Roller
- Conveyor Pulley Roller
- Skirt rubber and other processed rubber sheet products
- Belt Cleaners
- Various liner materials

Other products

- Rubber sheet, Processed belt products
- Super wide sheet
- Waterproof sheet for civil engineering
- Hoses and other rubber and plastic products

History

- May. 1957 Founded Yoshino Rubber Industries.
- May. 1963 Established "Yoshino Rubber Industrial Co., LTD." with a capital of 1 million yen.
Relocated our factory office to the current location.
- May. 1974 Mr.Toru Itoh was appointed president.
- Apr. 1975 Increased capital to 10 million yen.
Developed new product "S-CON".
- Feb. 1984 Moved the factory to the current location of Tamba Sasayama City.
Opened Sasayama Sales Office.
- May. 1987 Osaka Prefecture Governor Permit (General-62) No. 74728
acquired for Mechanical equipment installation work.
- Aug. 1987 Developed new product "Supercon".
Completed Green Hall (Training building).
- Mar. 1990 Established a new training retreat in Nishi-Maizuru.
- Sep. 1990 Completed Log-style guest house "Yoshino Century Salon".
- Mar. 1992 Established Hioki Dormitory in Tamba Sasayama.
- Oct. 1992 Constructed new headquarters building for 30th anniversary.
- Nov. 1992 Received Osaka Governor's Award for contribution to industrial promotion and development.
- Mar. 1994 Opened Development Center at Sasayama factory.
- Mar. 1996 Opened Aino Dormitory in Sanda City.
- May. 1996 Developed vertical conveyor system "NIMAIME-KUN".
- Apr. 2000 Sasayama Plant acquired ISO9002 certification.
Held a presentation tour of completion of a large-sized NIMAIME-KUN model machine.
President Toru Itoh received the Osaka Governor's Award as a person for the new technology development.
- Oct. 2003 Opened Tokyo Sales office.
- Oct. 2004 Completed Head office second building.
- Jun. 2005 Completed multi-purpose sports ground.
- Feb. 2006 Started sales of resin conveyor roller "ECORON ROLLER™".
- Oct. 2006 Opened Nagoya Sales Office
- Jan. 2008 Opened Kyushu Sales Office.
- Jun. 2009 Expanded acquisition of ISO9001 for all divisions throughout the company.
- Feb. 2011 Opened new factory, No.2 Plant West Japan Belt Center, in Tamba Sasayama, (History Museum attached).
- Jun. 2012 Mr. Toru Itoh was appointed Chairman.
Mr. Yoshihide Itoh was appointed President.
- Aug. 2012 Constructed the conveyors of waste treatment for the big earthquake in East Japan "Higashinihon daishinnsai".
- Nov. 2015 Started the sales of wide width sheets in the field of civil engineering and waterproofing. (First achievement in the field of civil engineering and impervious membrane).
- Sep. 2017 Entered the rubber dam business by using ultra-wide sheet.
- Feb. 2018 Capital increased to 30 million yen.
- Apr. 2018 Osaka Prefecture Governor Permit (Special-30) No.74728 (Machinery and equipment installation work, civil engineering work, etc.) acquired.
- Sep. 2018 Completed the Taiwan Cooperation Factory Friendship Memorial Monument at Sasayama Factory.
- May. 2019 Renamed "Sasayama Factory" to "Tamba Sasayama Factory".
- Jun. 2019 Renewed "NIMAIME-KUN®" demonstration machine at Tamba Sasayama Factory.



YOSHINO RUBBER INDUSTRIAL Co.,Ltd

Head office	4-26-14, Yoshino, Fukushima-ku, Osaka 553-0006, Japan TEL. +81 6 (6461) 5751 FAX. +81 6 (6465) 0708
Tokyo Sales Office	3-6-40-201, Roku-cho, Adachi-ku, Tokyo 121-0073, Japan TEL. +81 3 (3883) 7159 FAX. +81 3 (3883) 7259
Nagoya Sales Office	2-5-17, Fushimi, Tomikishima-cho, Tokai, Aichi 476-0012, Japan TEL. +81 52 (602) 0090 FAX. +81 52 (602) 0091
Hirosima Sales Office	1-1-1-703, Kasumi-cho, Fukuyama, Hiroshima 720-0812, Japan TEL. +81 84 (916) 4011 FAX. +81 84 (916) 4012
Kyushu Sales Office	1-2-39-804, Asano, Kokurakita-ku, Kitakyushu-shi, Fukuoka 802-0001, Japan TEL. +81 93 (551) 0775 FAX. +81 93 (551) 0776
Tamba Sasayama Factory	706 Tonomachi, Tamba Sasayama, Hyogo 669-2434, Japan TEL. +81 79 (552) 3981 FAX. +81 79 (552) 3321



Web Site Information

Our website, which continues to take on the challenge of "from conveyor belts to plants," strives to enhance the information needed by our customers. We provide useful information for our customers on a daily basis, such as "Case Studies," "Conveyor Belt Know-How Information," and the "Yoshino Rubber CH" video distribution service.

<https://www.yoshino-rubber.com/english/>

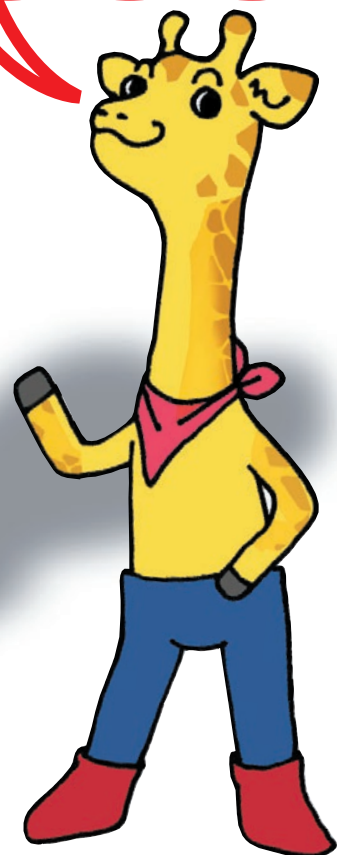


S STEEP SLOPE CONVEYOR belt CONVEYOR

S T E E P S L O P E C O N V E Y O R



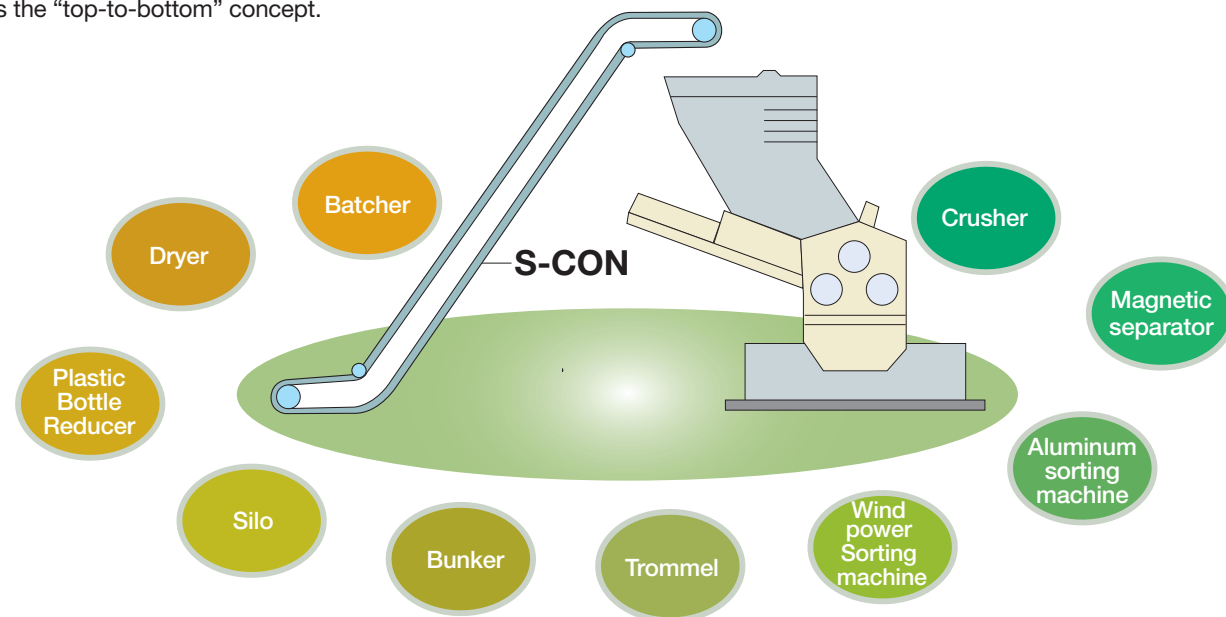
There is a reason why it is long sellers.



S CONVEYOR BELT

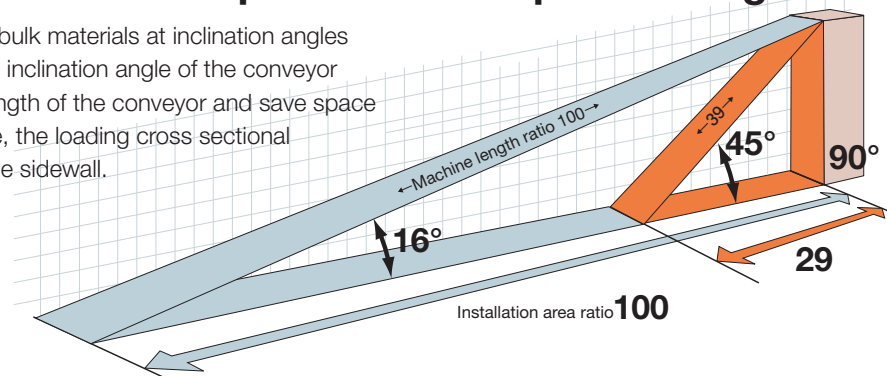
improves conveying efficiency in diverse production and processing lines.

The most efficient process in various conveyor lines is the "top-to-bottom" flow. For example, if "raw materials" in a manufacturing or processing line or "waste" in a waste treatment and sorting line can be conveyed to the highest point in a building at a stroke, wasteful conveying can be eliminated in subsequent processes. The S-CON steeply inclined conveyor, which can be installed to take advantage of limited space, is used in a wide variety of lines as a conveying system that realizes the "top-to-bottom" concept.



Efficient, steeply inclined transportation and space saving.

S-CON is optimized for conveying bulk materials at inclination angles from 45° to 90°. The increase in the inclination angle of the conveyor makes it possible to shorten the length of the conveyor and save space in the installation area. Furthermore, the loading cross sectional area can be increased by raising the sidewall.



S-CON installation cases



Limestone conveying



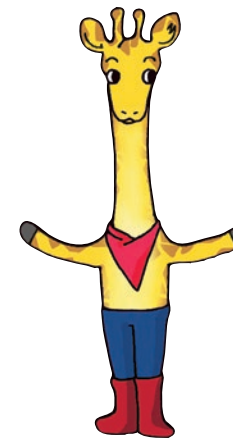
Wood chip conveying



Waste plastic conveying



Crushed stone conveying



Propose and build a system for S-CON

We propose the S-con not only for the conveyor belt, but also as the system.



1 Head pulley

The head pulley drives the conveyor belt by means of a reduction gear (drive motor).

2 Tail pulley

Belt tension is adjusted by the take-up unit built into the tail pulley.

3 Disc pulley

This pulley supports the free zone for angular belt variation.

4 Carrier roller

Rollers installed on the carrier side (conveyor side) of the belt conveyor.

5 Return roller

These rollers are installed on the return side of the belt conveyor (conveyed side). There are two types: a through roller type that receives the head of the sidewall wave pier (flange) and an end roller type that receives the head of the sidewall wave pier (flange) at the belt free zone.

6 Beater cleaner

Vibration is applied to the belt to drop conveyed materials adhering to the belt. In principle, a driven type is used when the belt speed is 60 m/min or higher, and a driven type is used when the belt speed is less than 60 m/min.

7 V-shape scraper

This is installed in front of the tail pulley on the back side of the tail section belt to prevent foreign objects from entering into the tail pulley.

8 Guide rollers (Side rollers)

This roller prevents the conveyor belt from meandering or leaning over by pressing against it at the belt edge.

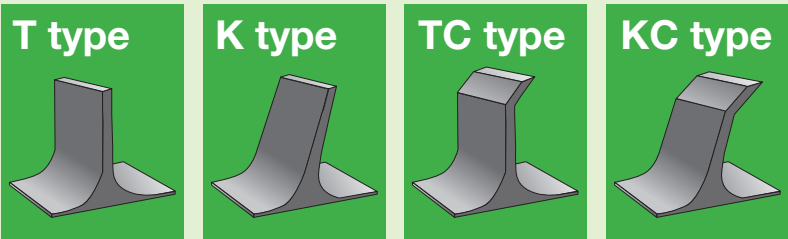
Unique belt construction for durability

It has abrasion resistance, weather resistance, oil resistance, and heat resistance, and can be used under severe conveyance conditions.
The unique structure provides sufficient flexibility in the vertical direction and high rigidity in the horizontal direction.

Horizontal cleats can be selected according to the angle of inclination

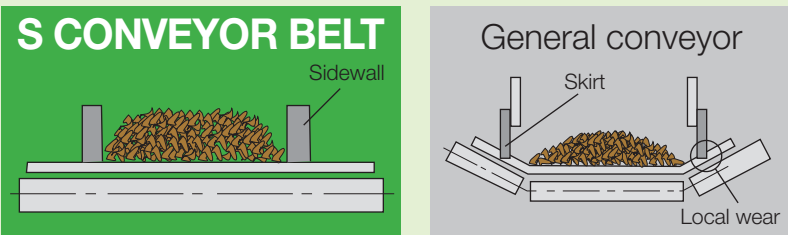
The "T" and "K" types are available as standard types, and the "TC" and "KC" types are available as special types. Select the "T" type for inclination angles of less than 45° or the "K" type for inclination angles of 45° or more. The TC and KC types are suitable for large-volume conveying (consult us for details).

*If the height of the Cleat is 90 mm or more, the structure is reinforced with reinforced canvas.



No need for a skirt to prevent cargo spillage.

Because the side wall and the belt itself are of one piece, skirt boards are not required as in the case of ordinary conveyors. This eliminates localized belt wear caused by skirt boards.



It can carry items of different shapes and sizes.

The S-CON is designed to carry large, bulky waste materials on its cleat. Of course, S-CON can also handle dry granular materials such as silica sand, gravel, and raw salt; moist materials such as ready-mixed concrete, powdered coal, and wood chips; and materials of various shapes and properties such as ore, coke, and gypsum. The strength of the belt is designed for each customer in consideration of the weight and size of the material to be conveyed.



Wide choice
and
functionality...
that's why it's a long-seller.

TOP cover rubber

Reinforcement canvas

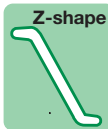
Bottom cover rubber

Cleat

Sidewall

Base belt

Base canvas
(Polyester)



The sidewall belt can be applied for the various layout of the conveyor because the shape of the sidewall is elastic and corrugated

● Example of belt indication

315N/mm(kgf/cm) 600×(2+2)P×4.0×2.5

① Belt strength
② (Core+Reinforcement) Number of piles canvas
③ Top cover thickness (mm)
④ Bottom cover thickness (mm)
⑤ Belt width (mm)

Reference: N/mm=1.02kgf/cm

■ Specifications of the base belt

Core	① Belt strength N/mm (kgf/cm)	160	250	315	400	500	630	800	1000
	② (Core+Reinforcement) P Number of piles canvas	(2+2) P	(2+2) P	(2+2) P	(2+2) P	(3+2) P	(3+2) P	(4+2) P	(5+3) P
Type of cover rubber	Cover rubber quality	Abrasion resistant, ultra abrasion resistant, oil resistant, heat resistant, flame retardant, flame retardant heavy oil resistant							
	Cover rubber thickness (④ top×④ bottom)	4.0×2.5	4.0×2.5	4.0×2.5	4.0×2.5	4.5×4.0	4.5×4.0	4.5×4.0	5.5×4.0
Belt width ⑤	300mm	●	●	●					
	350mm	●	●	●					
	400mm	●	●	●					
	450mm	●	●	●					
	500mm	●	●	●	●				
	600mm	●	●	●	●	●			
	650mm	●	●	●	●	●			
	700mm	●		●	●	●			
	750mm	●	●	●	●	●	●		
	800mm		●	●	●	●	●	●	
	900mm		●	●	●	●	●	●	●
	1,000mm			●	●	●	●	●	●
	1,050mm			●	●	●	●	●	●
	1,200mm				●	●	●	●	●
	1,350mm					●	●	●	●
	1,400mm						●	●	●
Reference data	Total belt thickness	9				13		14	16
	Unit weight	11				16		18	20

*Please refer to the table above for standard base belt sizes.

*When selecting a base belt, please consult us if the conditions of use (transport volume, lift, inclination angle) are heavy loads or if the specifications are other than the standard specifications shown in the table above.

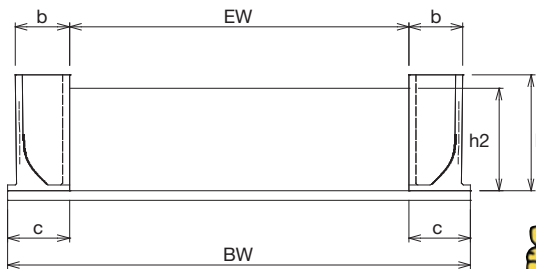
TECHNICAL DATA

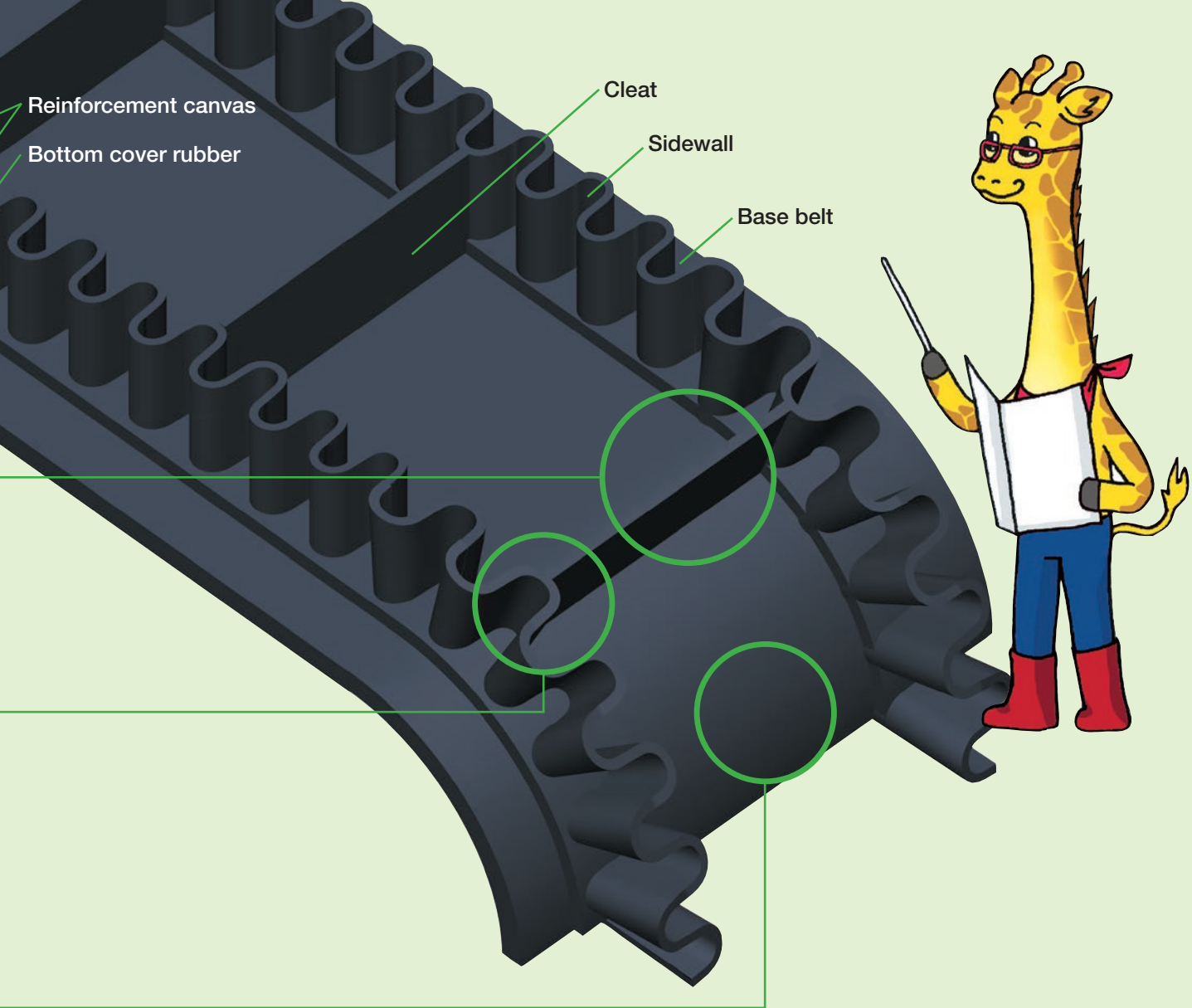


No free zone (used for I-line shape with no transformation)

Belt width	Effective Width	Flange				Cleat height
		heigh	pitch	upper width	foot width	
BW	EW	h1	p1	b	c	h2
400	310	60	50	50	45	55
	300	80	50	55	50	75
	280	100	50	55	60	90
	300	120	45	50	50	110
	250	135	70	80	75	125
450	360	60	50	50	45	55
	350	80	50	55	50	75
	330	100	50	55	60	90
	350	120	45	50	50	110
	300	135	70	80	75	125
500	410	60	50	50	45	55
	400	80	50	55	50	75
	380	100	50	55	60	90
	400	120	45	50	50	110
	350	135	70	80	75	125
600	500	80	50	55	50	75
	480	100	50	55	60	90
	500	120	45	50	50	110
	450	135	70	80	75	125
	440	150	65	70	80	140
750	440	160	65	70	80	140
	440	200	65	70	80	180
	630	100	50	55	60	90
	650	120	45	50	50	110
	600	135	70	80	75	125
900	590	150	65	70	80	140
	590	160	65	70	80	140
	590	200	65	70	80	180
	800	120	45	50	50	110
	750	135	70	80	75	125
1050	740	150	65	70	80	140
	740	160	65	70	80	140
	740	200	65	70	80	180
	870	250	75	80	90	230
	950	120	45	50	50	110
1200	890	150	65	70	80	140
	890	160	65	70	80	140
	890	200	65	70	80	180
	1020	250	75	80	90	230
	1010	300	75	80	95	280
1400	1240	150	65	70	80	140
	1240	160	65	70	80	140
	1240	200	65	70	80	180
	1220	250	75	80	90	230
	1210	300	75	80	95	280
1600	1440	150	65	70	80	140
	1440	160	65	70	80	140
	1440	200	65	70	80	180
	1420	250	75	80	90	230
	1410	300	75	80	95	280

Belt width	Effective Width	Flange				Cleat height
		heigh	pitch	upper width	foot width	
BW	EW	h1	p1	b	c	h2
300	210	60	50	50	45	55
	200	80	50	55	50	75
	260	60	50	50	45	55
350	250	80	50	55	50	75
	230	100	50	55	60	90
550	460	60	50	50	45	55
	450	80	50	55	50	75
	430	100	50	55	60	90
	450	120	45	50	50	110
650	400	135	70	80	75	125
	530	100	50	55	60	90
	550	120	45	50	50	110
	500	135	70	80	75	125
	490	150	65	70	80	140
700	490	160	65	70	80	140
	490	200	65	70	80	180
	580	100	50	55	60	90
	600	120	45	50	50	110
	550	135	70	80	75	125
800	540	150	65	70	80	140
	540	160	65	70	80	140
	540	200	65	70	80	180
	680	100	50	55	60	90
	700	120	45	50	50	110
1000	650	135	70	80	75	125
	640	150	65	70	80	140
	640	160	65	70	80	140
	640	200	65	70	80	180
	900	120	45	50	50	110
1350	840	150	65	70	80	140
	840	160	65	70	80	140
	840	200	65	70	80	180
	820	250	75	80	90	230
	1190	150	65	70	80	140





Example of belt indication

315N/mm (kgf/cm) 600×(2+2)P×4.0×2.5

- 1 Belt strength
2 (Core+Reinforcement) Number of piles canvas
3 Top cover thickness (mm)
4 Bottom cover thickness (mm)
5 Belt width (mm)

Specifications of the base belt

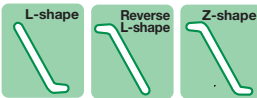
Core	1 Belt strength N/mm (kgf/cm)	160	250	315	400	500	630	800	1000
	2 (Core+Reinforcement) P Number of piles canvas	(2+2) P	(2+2) P	(2+2) P	(3+2) P	(3+2) P	(4+2) P	(5+3) P	
Type of cover rubber	Cover rubber quality	Abrasion resistant, ultra abrasion resistant, oil resistant, heat resistant, flame retardant, flame retardant heavy oil resistant							
Belt width 5	Cover rubber thickness (5 top×4 bottom)	4.0×2.5	4.0×2.5	4.0×2.5	4.0×2.5	4.5×4.0	4.5×4.0	4.5×4.0	5.5×4.0
	300mm	●	●	●					
	350mm	●	●	●					
	400mm	●	●	●					
	450mm	●	●	●					
	500mm	●	●	●	●				
	600mm	●	●	●	●	●			
	650mm	●	●	●	●	●			
	700mm	●	●	●	●	●			
	750mm	●	●	●	●	●	●		
	800mm		●	●	●	●	●	●	
	900mm		●	●	●	●	●	●	●
	1,000mm			●	●	●	●	●	●
	1,050mm			●	●	●	●	●	●
	1,200mm				●	●	●	●	●
	1,350mm					●	●	●	●
	1,400mm						●	●	●
	1,500mm							●	●
	1,600mm								●
Reference data	Total belt thickness	9				13		14	16
	Unit weight	11				16		18	20

*Please refer to the table above for standard base belt sizes.
*When selecting a base belt, please consult us if the conditions of use (transport volume, lift, inclination angle) are heavy loads or if the specifications are other than the standard specifications shown in the table above.

TECHNICAL DATA

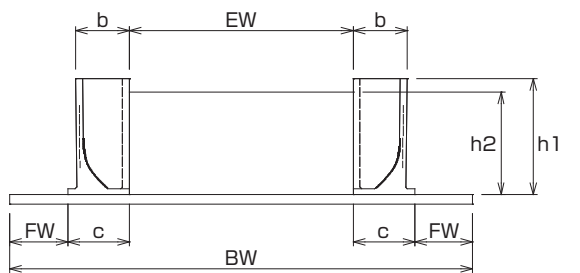
Standard combination dimensions of S CONVEYOR BELT With free zone

(used for L-shape, reverse L-shape, and Z-shape line shapes with variable angles)



Belt width	Effective Width	Flange				Free zone	Cleat height
		heigh	pitch	upper width	foot width		
BW	EW	h1	p1	b	c	FW	h2
400	210	60	50	50	45	50	55
	200	80	50	55	50	50	75
	180	100	50	55	60	50	90
	190	120	45	50	50	55	110
	140	135	70	80	75	55	125
450	250	60	50	50	45	55	55
	240	80	50	55	50	55	75
	220	100	50	55	60	55	90
	230	120	45	50	50	60	110
	180	135	70	80	75	60	125
500	290	60	50	50	45	60	55
	280	80	50	55	50	60	75
	260	100	50	55	60	60	90
	270	120	45	50	50	65	110
	220	135	70	80	75	65	125
600	360	80	50	55	50	70	75
	340	100	50	55	60	70	90
	350	120	45	50	50	75	110
	300	135	70	80	75	75	125
	290	150	65	70	80	75	140
750	290	160	65	70	80	75	140
	280	200	65	70	80	80	180
	460	100	50	55	60	85	90
	470	120	45	50	50	90	110
	420	135	70	80	75	90	125
900	410	150	65	70	80	90	140
	410	160	65	70	80	90	140
	400	200	65	70	80	95	180
	590	120	45	50	50	105	110
	540	135	70	80	75	105	125
1050	530	150	65	70	80	105	140
	530	160	65	70	80	105	140
	520	200	65	70	80	110	180
	710	120	45	50	50	120	110
	650	150	65	70	80	120	140
1200	650	160	65	70	80	120	140
	640	200	65	70	80	125	180
	610	250	75	80	90	130	230
	770	150	65	70	80	135	140
	770	160	65	70	80	135	140
1400	760	200	65	70	80	140	180
	730	250	75	80	90	145	230
	710	300	75	80	95	150	280
	930	150	65	70	80	155	140
	930	160	65	70	80	155	140
1600	920	200	65	70	80	160	180
	890	250	75	80	90	165	230
	870	300	75	80	95	170	280
	1090	150	65	70	80	175	140
	1090	160	65	70	80	175	140
1600	1080	200	65	70	80	180	180
	1050	250	75	80	90	185	230
	1030	300	75	80	95	190	280

*In the case of h1=160, FW is the same value as the h1=150

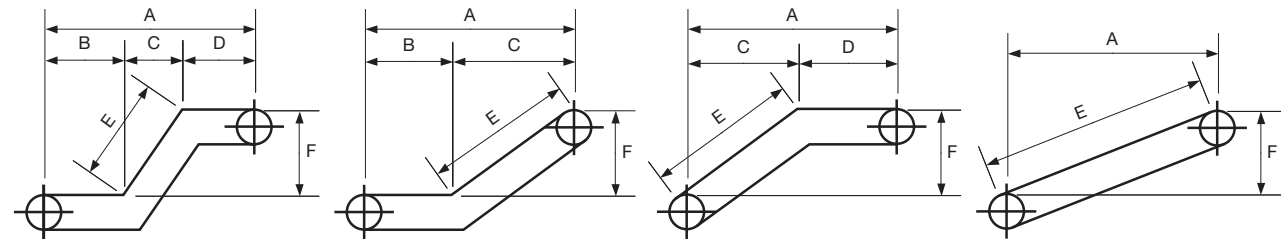


This is a long seller product in Yoshino Rubber.

Design condition entry form (contents to be determined by the user)



Basic conditions	Company name		Conveyance conditions	Transported material	
	Contact person			Shape and dimensions	
	Line name			Biggest chunk	mm)
	Operating conditions	Time/day		Transportation amount	(mm) (m³/h)
	Deadline	Day/year		Apparent specific gravity	(t/m³)
	With or without inspection walkway			Angle of repose	(°)
	With or without conveyor cover			Lateral angle	(°)
	Paint specifications and color			Temperature	(°C)
Layout	Other construction conditions		Other conditions	Oil and moisture	
				Special properties	
	height of head pulley center	(mm)		Service voltage	(V)
	height of tail pulley center	(mm)		Frequency	(Hz)
	angle	(°)		Safety device	
	Installation location	Indoor Outdoor			
	Conveyance feed method	Fixed quantity supply is the principle			



Machine length	A	Horizontal Machine length	
	B	Bottom horizontal machine length	
	C	Slope horizontal machine length	
	D	Top horizontal machine length	
	E	Actual length of inclined part incline length	
	F	Lifting height	
	α	Incline angle	