

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

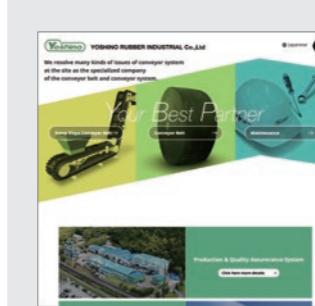
History

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 Tomomachi, 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/>

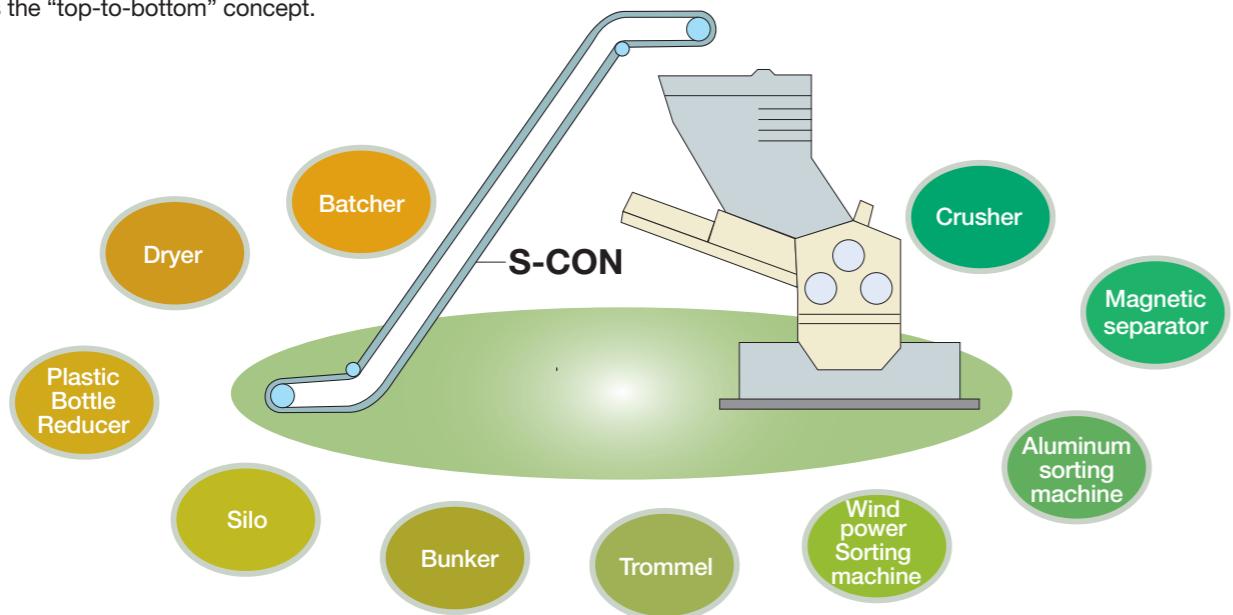
S STEEP SLOPE CONVEYOR belt CONVEYOR STEEP SLOPE CONVEYOR



S CONVEYOR BELT

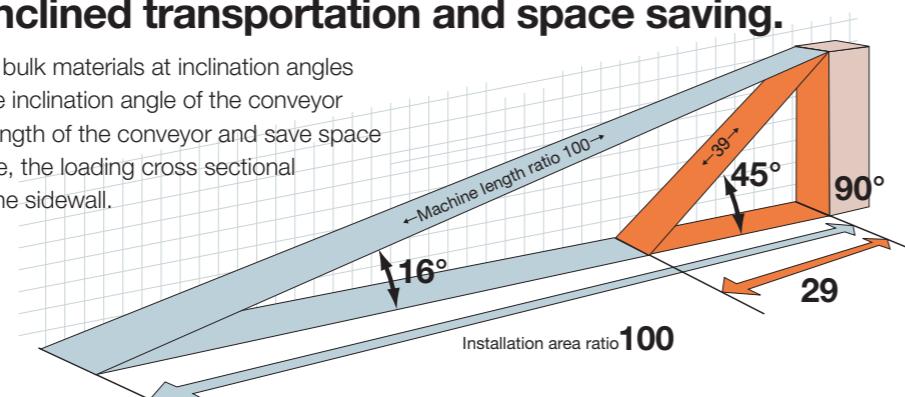
improves conveying efficiency in diverse production and processing lines.

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

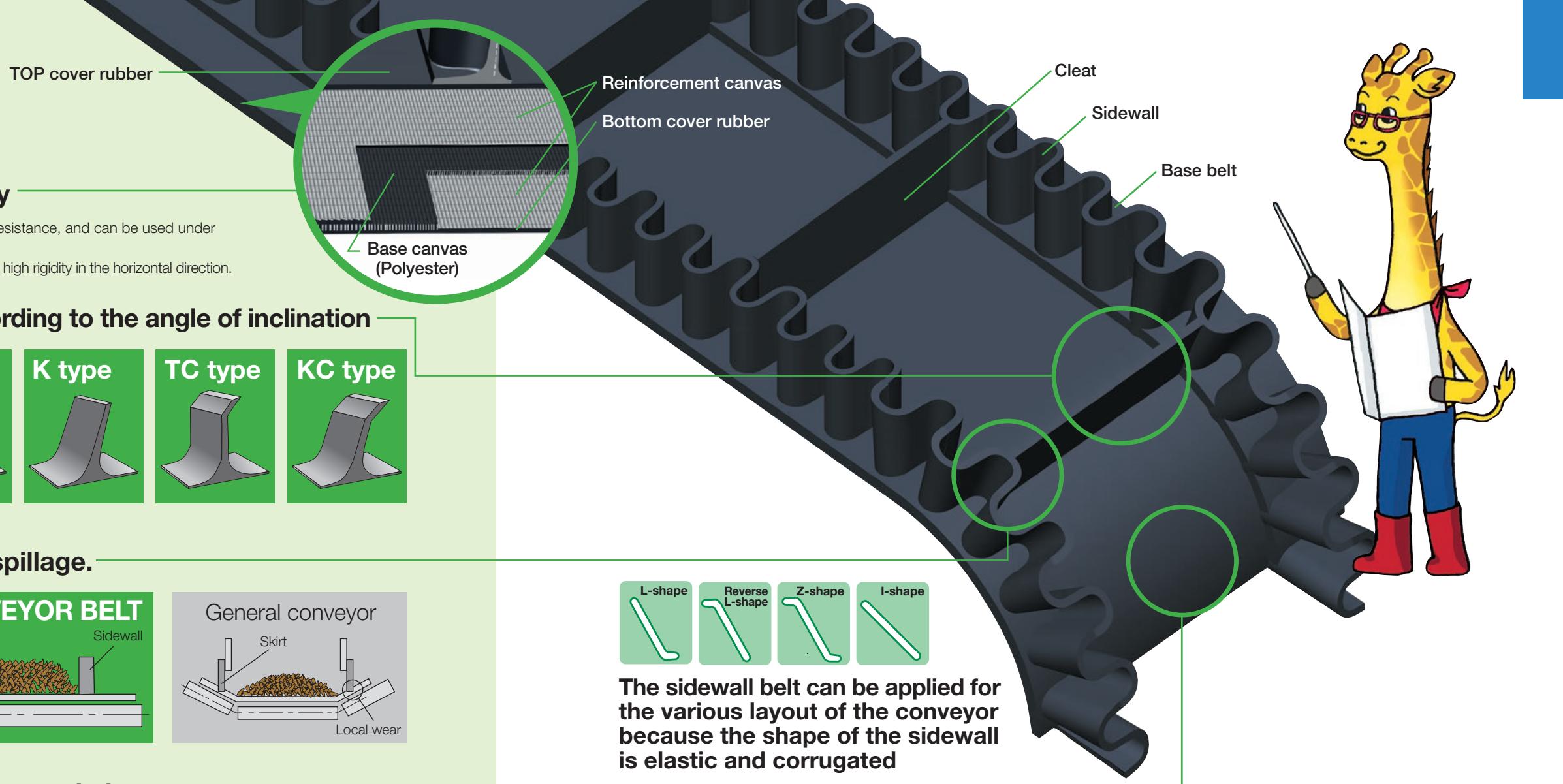
Vibration is applied to the belt to drop conveyed materials adhering to the belt. In principle, a driven type is used when the belt speed is 60 m/min or higher, and a driven type is used when the belt speed is less than 60 m/min.

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

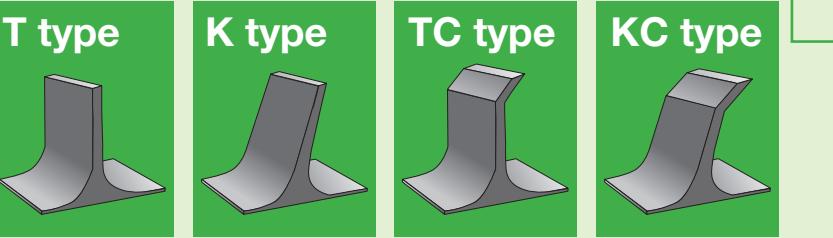
It has abrasion resistance, weather resistance, oil resistance, and heat resistance, and can be used under severe conveyance conditions.

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

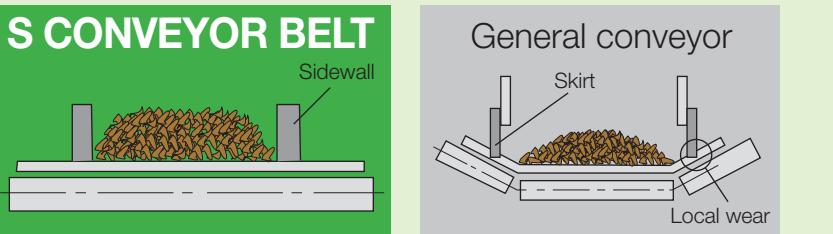
The "T" and "K" types are available as standard types, and the "TC" and "KC" types are available as special types. Select the "T" type for inclination angles of less than 45° or the "K" type for inclination angles of 45° or more. The TC and KC types are suitable for large-volume conveying (consult us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

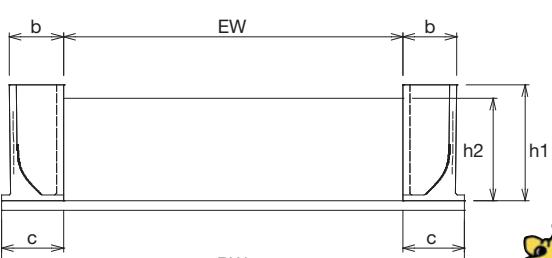
that's why it's a long-seller.

TECHNICAL DATA

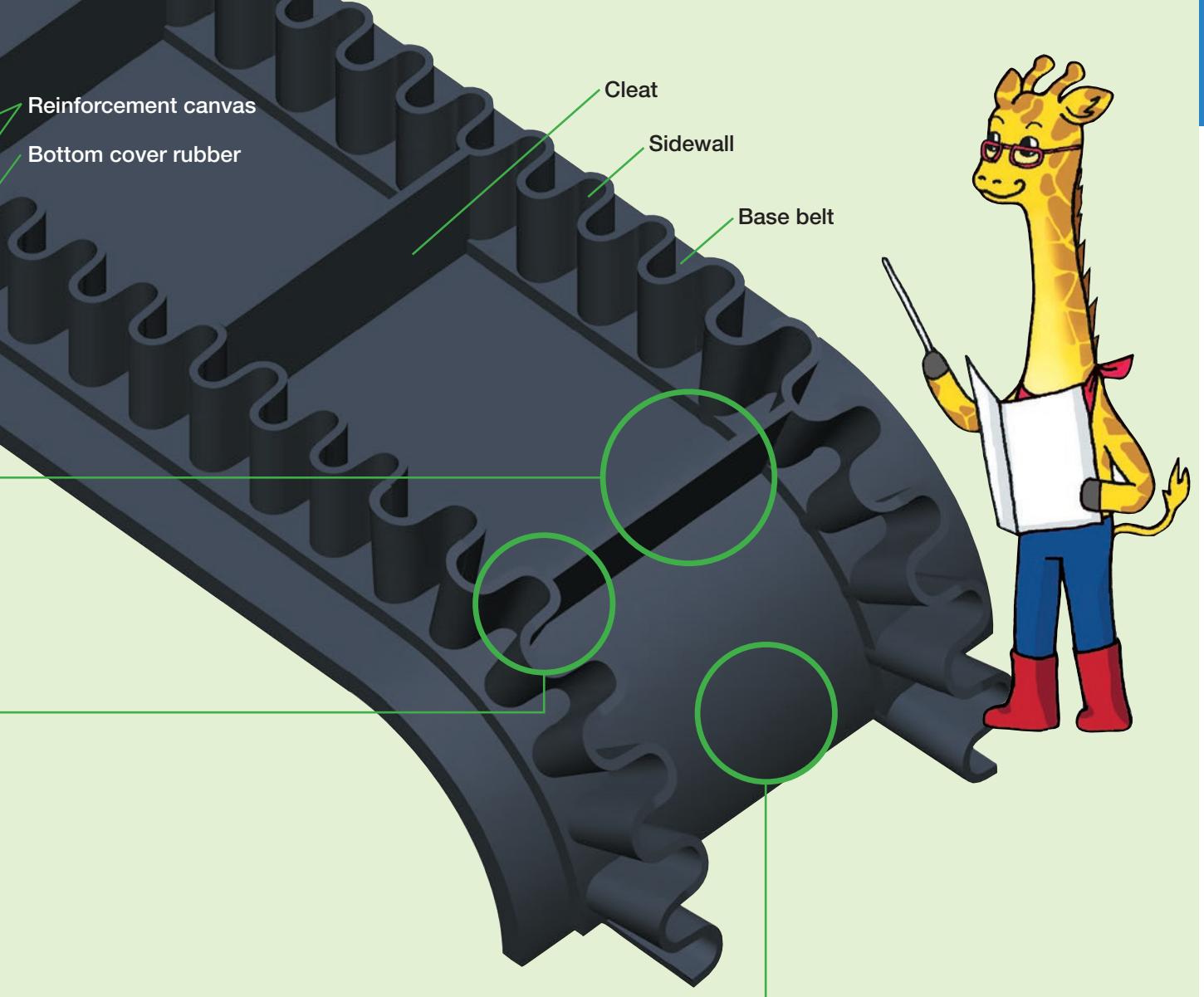


No free zone (used for I-line shape with no transformation)

Belt width	Effective Width	Flange				Cleat height
		height	pitch	upper width	foot width	
BW	EW	h1	p1	b	c	h2
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	
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	
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	
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	
440	160	65	70	80	140	
440	200	65	70	80	180	
600	80	50	55	50	75	
580	100	50	55	60	90	
600	120	45	50	50	110	
550	135	70	80	75	125	
540	150	65	70	80	140	
540	160	65	70	80	140	
540	200	65	70	80	180	
650	80	50	55	50	75	
490	100	50	55	60	90	
490	120	45	50	50	110	
490	135	70	80	75	125	
490	160	65	70	80	140	
490	200	65	70	80	180	
700	80	50	55	50	75	
580	100	50	55	60	90	
600	120	45	50	50	110	
550	135	70	80	75	125	
540	150	65	70	80	140	
540	160	65	70	80	140	
540	200	65	70	80	180	
750	80	50	55	50	75	
630	100	50	55	60	90	
650	120	45	50	50	110	
600	135	70	80	75	125	
590	150	65	70	80	140	
590	160	65	70	80	140	
590	200	65	70	80	180	
800	80	50	55	50	75	
700	100	50	55	50	110	
650	135	70	80	75	125	
640	150	65	70	80	140	
640	200	65	70	80	180	
800	80	50	55	50	75	
680	100	50	55	60	90	
700	120	45	50	50	110	
650	135	70	80	75	125	
640	150	65	70	80	140	
640	200	65	70	80	180	
1000	80	50	55	50	75	
840	100	50	55	70	140	
840	150	65	70	80	140	
840	160	65	70	80	140	
840	200	65	70	80	180	
1050	80	50	55	50	75	
890	100	50	55	70	140	
890	150	65	70	80	140	
890	200	65	70	80	180	
870	250	75	80	90	230	
1040	80	50	55	50	75	
1040	100	50	55	70	140	
1040	150	65	70	80	140	
1040	200	65	70	80	180	
1200	80	50	55	50	75	
1020	250	75	80	90	230	
1010	300	75	80	95	280	
1240	80	50	55	50	75	
1240	100	50	55	70	140	
1240	150	65	70	80	140	
1240	200	65	70	80	180	
1220	250	75	80	90	230	
1210	300	75	80	95	280	
1440	80	50	55	50	75	
1440	100	50	55	70	140	
1440	150	65	70	80	140	
1440	200	65	70	80	180	
1420	250	75	80	90	230	
1410	300	75	80	95	280	



*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.



Example of belt indication
315N/mm (kgf/cm) 600×(2+2)P×4.0×2.5

Specifications of the base belt

Core	① Belt strength N/mm (kgf/cm)		② (Core+Reinforcement) P Number of piles canvas		③ Top cover thickness (mm)		④ Bottom cover thickness (mm)		Reference: N/mm=1.02kgf/cm	
	160	250	315	400	(2+2) P	(2+2) P	(3+2) P	(3+2) P		(4+2) P
Type of cover rubber	⑤ Cover rubber quality	Abrasion resistant, ultra abrasion resistant, oil resistant, heat resistant, flame retardant, flame retardant heavy oil resistant								
	⑥ 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	
Belt width	300mm	160	250	315	400	500	630	800	1000	
	350mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	400mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	450mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	500mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	600mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	650mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	700mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	750mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	800mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	900mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	1,000mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	1,050mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	1,200mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	1,350mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	1,400mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	1,500mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
	1,600mm	160	250	315	400	(2+2) P	(3+2) P	(4+2) P	(5+3) P	
Reference data	Total belt thickness	9		13		14		16		
	Unit weight	11		16		18		20		

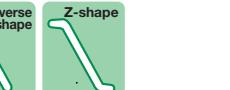
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When selecting a base belt, please consult us if the conditions of use (transport volume, lift, inclination angle) are heavy loads or if the specifications are other than the standard specifications shown in the table above.

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
		height	pitch	upper width	foot width		
400	BW	h1	p1	b	c	FW	h2
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	
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	
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	
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	
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	
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	
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	
420	135	70	80	75	90	125	
410	150	65	70	80	90	140	
410	160	65	70	80	90	140	
400	200	65	70	80	95	180	
670	120	45	50	50	115	110	
610	150	65	70	80	115	140	
610	160	65	70	80	115	140	
600	200	65	70	80	120	180	
570	250	75	80	90	125	230	
890	150	65	70	80	150	140	
890	160	65	70	80	150	140	
880	200	65	70	80	155	180	
850	250	75	80	90	160	230	
610	250	75	80	90	130	230	
770	150	65	70	80	135	140	
770	160	65	70	80	135	140	
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	
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	
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



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

S STEEP SLOPE CONVEYOR belt
STEEP SLOPE CONVEYOR

Basic conditions	Company name		
	Contact person		
	Line name		
	Operating conditions		
	Deadline		
	With or without inspection walkway		
	With or without conveyor cover		
	Paint specifications and color		
	Other construction conditions		
Layout	height of head pulley center	(mm)	
	height of tail pulley center	(mm)	
	angle	(°)	
	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	