



Flexowell Conveyor Belts

Special horizontal cleats and wave-shaped sidewalls enable Flexowell Belts to convey at angles up to 90° (vertical). Capital nvestment savings due to substantially reduced facility space, with high efficiency. The simple structure allows for easy maintenance and contributes to reduced running costs.

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Types and applications

Types of rubber	Applications	Major transferred goods	
Standard products	Transportation of loose materials and powders	Sand, gravel, crushed stone, iron ore, sintered steel, steelmaking auxiliary materials, granulated slag, steel shot, wood chips, pulp, used paper, clay, cement, bricks, tile raw materials, cullet, glass raw materials, grain, fertilizers, coal, and coal ash	
Heat-resistant products	Transportation of high-temperature goods (Intermediate heat-resistant transportation with the temperature of transferred goods not higher than 100°C and the belt surface temperature not higher than 70°C)	Coke, molding sand, mesalite ore, sulfur, pellets, cement clinker, sintered steel, glass raw materials, and cement	
Oil-resistant products	Transportation of oily goods (highly oil resistant)	Settled sand, dewatered sludge, scum, municipal refuse, paper making sludge, punched steel sheets, animal skin, grain, and animal feeding stuff	
Flame-retardant products	Coal-fired power stations, etc.	Coal and others	
Flame-retardant and oil-resistant products*	Bulk waste disposal sites, etc. (waste crushing facilities)	Coarse refuse, etc.	

^{*} Fire prevention measure at bulk waste disposal sites. Used in steep-incline crusher lines. (Flame resistance performance equivalent to products passing JIS flame resistance test.)



1. Space saving

Vertical conveyance substantially saves space compared with conventional conveyor facilities.

2. Freely design conveyor line angles

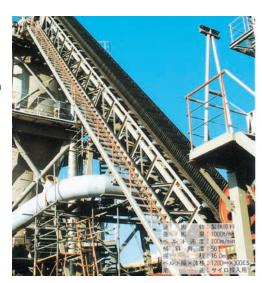
Easy to design the required conveyor angle, from flat to steep incline, depending on the facility layout.

3. High capacity conveyance

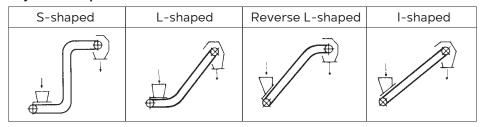
Significantly improved cross-section area, with dramatically increased load capacity compared with trough conveyors.

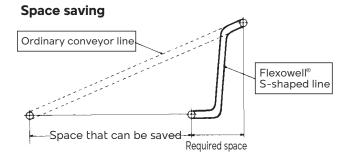
4. Reduced facility costs

Small pulley diameters may be used, without the need for skirt boards. Facility costs are reduced with flat rollers.

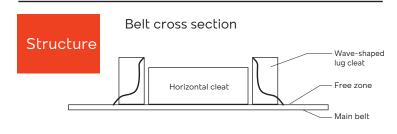


Major line shapes



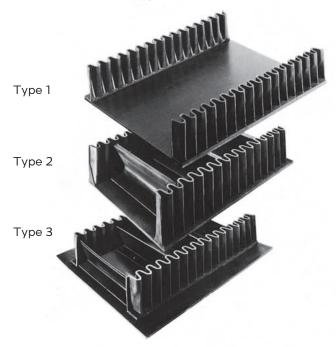








Flexowell® Belts are made up of the main body belt, wave-shaped sidewalls and horizontal cleats. The three components are rigidly cold-bonded by mechanical means. Please consult with us, as various combinations are available, depending on the items conveyed, volume and the angle of inclination.



Combination types (Types 1, 2 and 3 are standard)

Type 1: No free zone, no horizontal cleats

For lines with $0-16^{\circ}$ inclinations, without angle change in conveyance.

Type 2: No free zone, with horizontal cleats

For sharp inclines, without angle change in conveyance.

Type 3: With free zone and horizontal cleats

For sharp inclines, with angle change(s) in conveyance.

Type 4: With free zone, without horizontal cleats

For lines with 0-16° inclinations, with angle change(s) in conveyance.

Standard combination

Standard Combination In m				
Belt width	Sidewall height	Horizontal cleat heigh	Effective width	Free zone width
300	60N	55	120	40
300	80N	75	200	0
350	60N	55	150	50
	80N	75	250	0
400	60N	55 75	200	50
	80N 100N	75 90		
	120N	110	300	0
	60N	55		
450	80N	75	230	60
	100N	90	350	0
450	120N	110		
	1205	110	180	60
			300	0
500	80N	75	<u>280</u> 400	60
	100N	90	260	70
	120N	110	400	0
			210	70
	120S	110	350	0
600	80N	75	360	70
	100N	90	500	0
	120N	110	340	80
			500	0
	120S	110	<u>290</u> 450	80
	100N	90	390	80
	120N	110	550	0
	1206	110	340	80
650	120S	110	500	0
	160S	140	320	90
	1005	140	500	0
	100N	90	440	80
			600 420	90
700	120N	110	600	0
	120S	110	370	90
	160S	140	550	0
	100N	90	470	90
	120N	110	650	0
750	120S	110	420	90
,50	160S	140	600	100
	200S	140 180	400	0
800	120S	110		
	160S	140	450	100
	200S	180	650	0
	120S	110	530	110
	160S	140	750	0
900	200S	180	510	
	240S	220	750	120 0
	120S	110	610	120
	160S	140		120
1000	2005	180	850	0
	240S	220	590	130
	2 103		850	0
	120S	110	660	120
	160S	140	900	0
1050	2005	180	640	130
	240S	220		
	2805	260	900	0
	160S	140	770	140
	200S	180	1050	0
	240S	220	750	150
1200	2805	260	1050	0
	300S 300ES	280 280	700	150
	400ES	360	700	150
	200S	180	930	160
	240S	220		
1400	280S	260	910	170
	300S	280	850	200
	300ES	280	800	200
	400ES	360		
	280S 300S	260 280	1050	200
1600	300S	280	1000	202
	400ES	360	1000	200

^{*} Standard effective widths of ES types are available in multiples of 100mm.

^{*} We can design and manufacture large-capacity non-standard belts, with various widths and strengths. Please contact us.