

## METAL WIRE CONVEYOR BELTS

### 'PB-100' Diamond Shaped Belt/Conventional Type Belts:

This Belt is constructed of one directional spirals which are weaved into each other. Cross rod wires are not used. Such belts are recommended for use for operation which requires much strength and durability. This type of belt is suitable for (a) low loading (b) short belt (c) small diameter on end rolls and (d) mesh size down to 3 mm.

Example: \* Biscuit and confectionery machines \* Paper dryers.

**Apertures:** 51 to 3 mm. Wire Dia : 4 to 0.70 mm.

Width: Upto 3000 mm

The belt can be equipped with chain drive.

#### Standard Belts:

PB Ref.	Specifications	Approx. Mesh	PB Ref.	Specifications	Approx. Mesh
101	8-14-81	1"	106	48-79-16	6
102	12-22-11	3/4"	107	57-95-18	6
103	1 7-30-11	3/8"	108	63-1 38-22	8
104	19-33-14	3/8"	109	65-106-20	7
105	30-49-16	3 1/2"			

Note: The specifications above show number of turns per foot width, number of spirals per foot length and wire gauge.

**Making Endless:** Threading a looped spiral wire through the end spirals of the belt will complete connection making the belt endless. The ends of the threaded spiral are to be knucked or welded at selvage edges to prevent displacement.

### 'PB-2 Rod-reinforced Belts:

The weave is constructed of one directional spirals with plain cross wires inserted through the hinge of the spirals. The spirals turn on the rod wires as well as on each other. This gives maximum tensile strength at minimum weight. This belt especially suits for operations involving temperature extremes, hot or cold. This type of belt is suitable for (a) requirement for large open surface (b) temperature upto 1100°C (c) heavy loading and (d) extreme long/narrow belt.

Example: \* Hardening ovens \* Sintering ovens.

The belt can be equipped with chain drive.

#### Standard Belts:

PB Ref.	Specifications	Approx. Mesh	Approx. MWT kgs/ft Belt Width	PB Ref.	Specifications	Approx. Mesh	Approx. MWT kgs/ft Belt Width
201	15-13-10	3/4"	770	206	22-23-11	1/ 2"	910
202	18-17-19(H)	5/8"	930	207	24-24-12(H)	7/16"	760
203	18-16-12(H)	5/8"	570	208	28-30-14	3/8"	510
204	18-18-12	5/8"	590	209	48-68-16	5	410
205	21-24-10	1/2"	1090				

(H) = I for High Temperature applications.

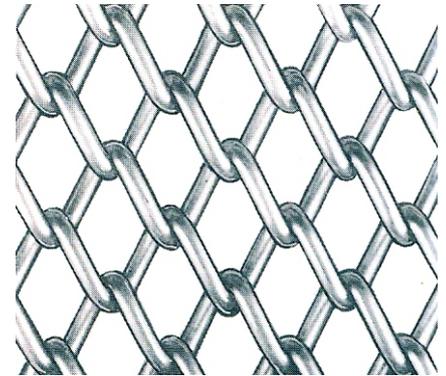
**Making Endless:** The ends are brought together and a spiral wire is threaded through straight wire is then inserted through the hinging points of the spirals.

### 'PB-300' Balanced Belts:

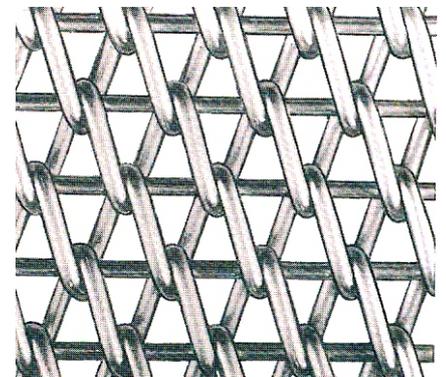
The belt consists of alternating right and left hand spirals each joined by a crimped cross wire. The crimped wire is normally specified for strength, flexibility and flatness. The belt is straight and stable. It is suitable for (a) requirement of large open area (b) temperature upto 600°C and (c) moderate loading.

Examples: \* Freezing plants \* Packing machines \* Canning & food manufacturing Machines \* Shrinking tunnels \* Drying kilns.

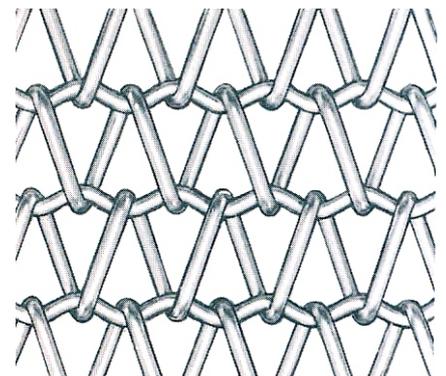
In certain cases this belt can be equipped with chain drive.



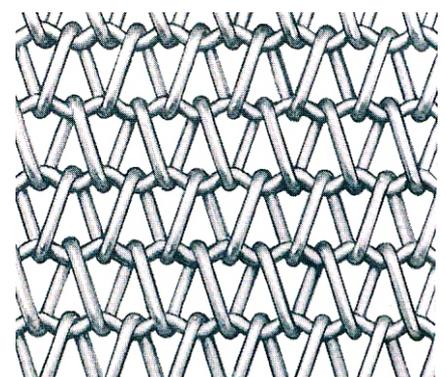
PB-100 Conventional



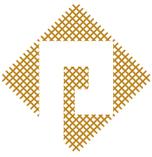
PB-200 Rod-reinforced



PB-300 Balanced



PB-300 Balanced



# PACE HIGH TEMPERATURE BELTS

## Standard Belts:

PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width	PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width
301	12-11-6	1"	800	330	36-32-16(H)	3	190
302	18-10-8-6	3/4"	630	331	36-40-16	3	270
303	18-15-16-14	3/4"	130	332	36-40-18-16	3	90
304	18-16-12-11(L)	3/4"	350	333	38-28-16-14(H)	3	190
305	18-16-12	3/4"	300	334	38-30-16-14	3	260
306	18-17-10	3/4"	630	335	42-27-14(H)	3 1/2	710
307	24-19-10(L)	1/2"	1000	336	42-38-16	3 1/2	260
308	24-20-12-10(L)	1/2"	710	337	48-32-14(L)	4	870
309	24-21-14	1/2"	230	338	48-37-16(H)	4	350
310	24-22-12	1/2"	530	339	48-48-18	4	70
311	24-23-10	1/2"	1120	340	48-51-16	4	350
312	30-18-14-10	3/8"	570	341	48-52-18(H)	4	110
313	30-20-12-11(L)	3/8"	970	342	60-24-14	5	1090
314	30-24-12-10(L)	3/8"	1070	343	60-24-16-14(H)	5	580
315	30-24-12(L)	3/8"	830	344	60-38-14	5	1090
316	30-28-14	3/8"	360	345	60-40-16(G)	5	520
317	30-29-16	3/8"	130	346	60-40-18-16(G)	5	180
318	30-30-12-11(L)	3/8"	970	347	60-40-20-18(G)	5	30
319	32-16-14-12	3/8"	360	348	60-55-16	5	520
320	36-20-12-10(L)	3	1280	349	60-60-16(H)	5	520
321	36-20-12(L)	3	1140	350	60-60-18	5	180
322	36-20-14-12(L)	3	700	351	72-24-16	6	620
323	36-22-12(L)	3	1150	352	72-56-16	6	620
324	36-24-14	3	520	353	72-68-18	6	260
325	36-30-12	3	1220	354	84-82-18	7	320
326	36-30-14	3	520	355	108-40-18	9	60
327	36-30-16(H)	3	190	356	108-40-20-18	9	40
328	36-30-18-16	3	190	357	108-40-22-20	9	30
329	36-30-18	3	60	358	144-105-22-20	12	130

(G) = Glass industry applications.

(H) = High Temperature applications

(L) = Lehr belt

**Making Endless:** A right hand spiral on one end and a left hand spiral on the other end are to be brought together and a crimped connecting wire is inserted through The hinge of the spiral.

### 'PB.400' Double Balanced Belts:

This belt is similar to Balanced Belt, but consists pairs of interlaced right and left hand spirals having greater angle to weave. The cross wire is crimped on more open meshes and is kept straight on the close meshes. It can be selected for ambient, medium or high temperature applications where such characteristics are desired. It is primarily considered for high temperature services due to its high cost.

## Standard Belts:

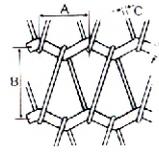
PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width	PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width
401	24-10-8-6(H)	1/2"	2020	405	50-25-14-12(H)	4	1020
402	30-18-12-11(H)	3/8"	970	406	60-46-16	5	520
403	36-10-10(H)	3	1870	407	248-132-28-21	22	40
404	36-18-11(H)	3	1490				

(H) = High Temperature applications.

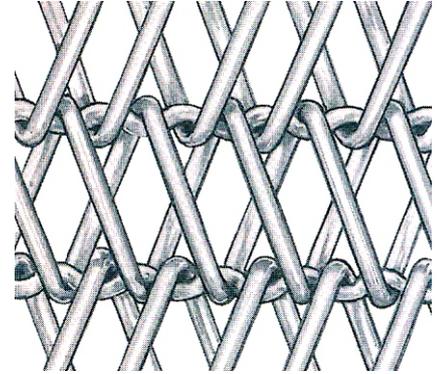
**Making Endless:** The belt is supplied with right hand spirals on one end and left hand spirals on the other, The ends are connected by the inserting of a wire to make the belt endless.

### 'PB.500' Straight Rod Balanced Belts/Gratex Belts:

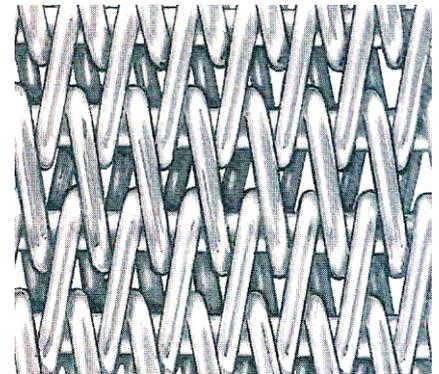
The spirals are joined by a straight cross wire for flat dense surface. The closely woven mesh provides stronger construction. The belt is most efficient in transportation of small parts such as needle bearings, lock washers etc. It is similar in construction to 'PB - 300' Belts



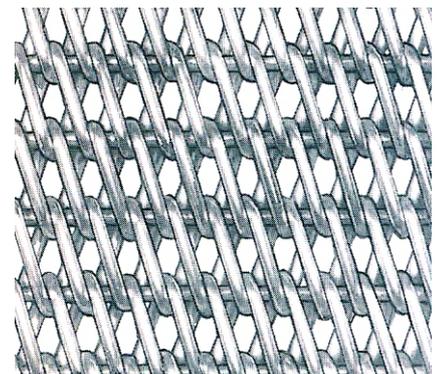
A = Spiral wire pitch;  
B = Cross wire pitch;  
C = Spiral wire diameter;  
D = Cross wire diameter



PB-400 Double Balanced



PB-500 Gratex



PB-600 Duplex



PB-700 Herringbone



## Standard Belts:

PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width	PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width
501	35-19-10-6	3	2230	504	72-76-16-13	6	720
502	42-10-10-6	3 1/2	2595	505	102-68-19-16	8 1/2	410
503	43-20-12-10	3 1/2	1530				

**Making Endless:** The belt is furnished with a right hand spiral on one end and a left hand spiral on the other. The ends are brought together and connected by The insertion of a straight wire.

## 'PB600' Duplex Belts:

The Belt is woven of pairs of spirals each pair turned into the preceding pair and reinforced with cross wire Through the hinging point. The percentage of open area is reduced whereas weight and tensile strength are increased. The close mesh and smooth carrying surface makes the belt most efficient for carrying small parts like needle bearings, lock washers etc. Through quench tanks or other processes and for support of plastics and other products that would be marked by more open mesh fabric. This belt construction is often used for chain driven belts and is also preferred for furnace curtains or explosion screens.

## Standard Belts:

PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width	PB Ref.	Specifications	Approx. Mesh	MWT kgs/ft Belt Width
601	36-18-12	3	1810	607	106-58-18	9	400
602	48-32-12-10	4	1710	608	120-60-20-18	10	270
603	52-29-14	4 1/2	950	609	136-94-20	12	200
604	59-48-14	5	1070	610	226-132-24-22	19	40
605	68-40-14	6	1240	611	264-178-28-22	23	40
606	78-60-16	7	680				

**Making Endless:** The procedure which is used with The 'PB-200' belt is followed. However this belt has two wires to be picked up from each end, instead of one. So two spirals are required to be threaded through, each spiral picking up one wire from each end of the belt. Two straight rod wire are then inserted Through the hinging points of the spirals.

## 'PB Herringbone Shaped Belts/Compound Balanced Belts:

This particular design of belt can handle extremely small items and retains its shape indefinitely. This belt is constructed of right and left hand spirals very closely woven and joined by a straight cross wire. Each spiral is connected by two or more straight cross wires. The belt can convey unstable or top heavy items. It is selected as baking band belt due to its lightly woven mesh which provides adequate support for doughs yet permits gases to escape for proper bottom bake.

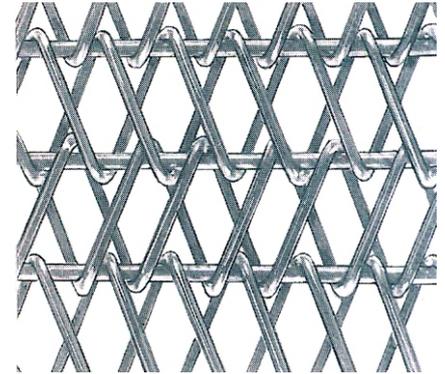
## Standard Belts:

PB Ref.	Rods/Wires	Specifications	MWT kgs/ft Belt Width	PB Ref.	Rods/Wires	Specifications	MWT kgs/ft Belt Width
701	2	72-141-19	280	705	3	48-54-16-10	1520
702	2	114-192-22	160	706	4	26-80-16-14	550
703	2	143-224-24-22	140	707	4	82-156-23-20	310
704	3	38-70-16-12	1080	708	5	110-84-18	390

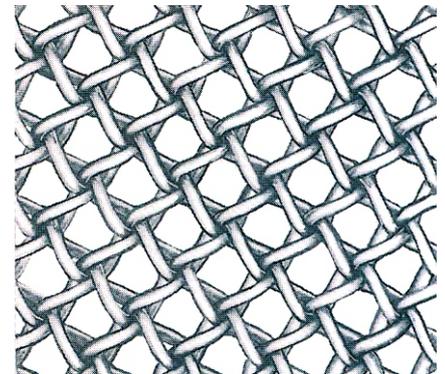
**Making Endless:** It has to be made endless in the similar manner to that of other rod-connected belts, But in case of this belt several strands from each end of the belt should be connected, This is achieved by bringing the ends together and inserting the required number of connecting rods through the hinge points of the spirals. The rod ends are then welded to The spirals.

## 'PB Double Helical Belt:

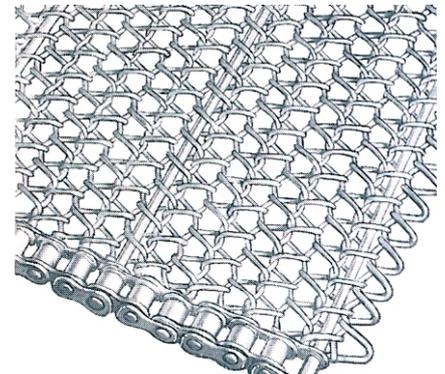
Pairs of spirals wound in the same direction are joined by straight rod wires offering flat smooth surface. The thin wires used for the belt makes it light in weight but its structure is solid and stable. It is ideal for conveyance of light weight materials. These belts are generally driven by chains It is widely employed in light industries including textile mainly in drying processes.



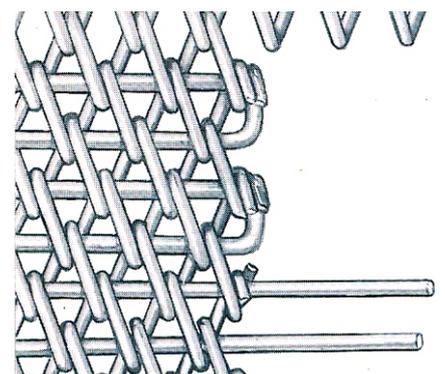
PB-800 Double Helical



PB-900 Mat



PB-300 Roller Chain



PB-200 Making Endless



# PACE METAL MESH BELTS

## Standard Belts:

PB Ref.	Specifications	PB Ref.	Specifications
801	30-17-14-12	805	61-38-20-18
802	44-18-16-14	806	66-48-22-18
803	51-24-18-16		

Making Endless: It is made endless in the same manner in which it is made as described above.

## 'PB-900' Mat Weave:

This is composed of several round spiral interwoven wires, the 'PB-900' features robust structure, large open area and sufficient thickness. It is generally used as supporting net for the filtering process in the chemical industry. The typical usage being supporting filtering net or cloth in a filter press.

## Standard Belts:

PB Ref.	Pitch mm	Wire Dia mm	PB Ref.	Pitch mm	Wire Dia mm
901	25	2.0	904	8	1.0
902	15	1.6	905	5	0.9
903	12	1.6			

## General:

- Belt specifications shown above indicate number of spiral turns per foot width, number of cross wires per foot length, spiral wire gauge and cross wire gauge  
PB = Pace Belts. MWT = Maximum Working Tension.
- The belts are available in knuckled or welded selvages.
- Chain Driven Belts: Several belts can be affached on the edges with roller chains. The chain drive gives the belt longer life increased capacity and eliminates slipping and skewing. The roller chain is provided to customer's specifications.
- The belts can be (1) Friction Driven with various types of pulley drives or (2) Roller
- Chain Driven with use of sprockets.

While sending enquiry/order, please specify:

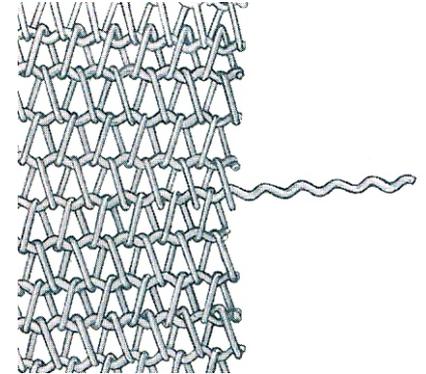
- Number of spiral turns per foot width or spiral wire pitch
- Number of cross wires per foot length or cross wire pitch
- Spiral wire gauge/diameter (4) Cross wire gauge/diameter
- Type of belt/PB reference (6) Type of selvages
- Width & Length (8) Metal of wire
- Belt operating temperature
- Any other relevant information or drawings or sample as we manufacture belts to required specifications.

## Materials:

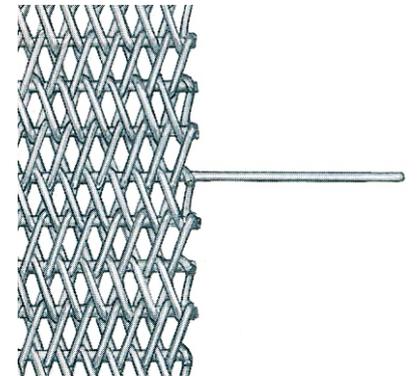
Stainless Steel - All Grades, Nichrome, Inconel, High Carbon Steel, Mild Steel, Mild Steel Galvanised, Kanthal.

## Industries served:

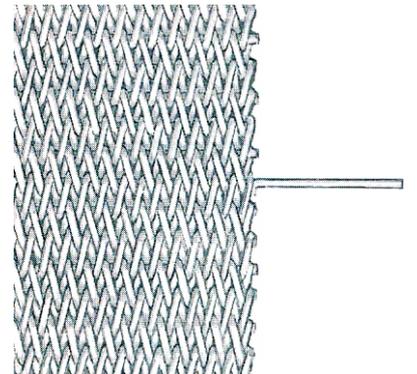
\* Aerospace \* Appliance \* Automotive \* Chemical \* Coal \* Confectionery \* Construction \* Electronics \* Energy \* Fertilizer \* Food \* Processing \* Glass & Ceramics \* Heat Treatment \* Annealing \* Metal Working \* Mining \* Petrochemical \* Petroleum \* Plastics \* Plywood \* Pollution Control \* Pulp & Paper \* Rubber \* Refining \* Steel Mills \* Textile \* Tobacco.



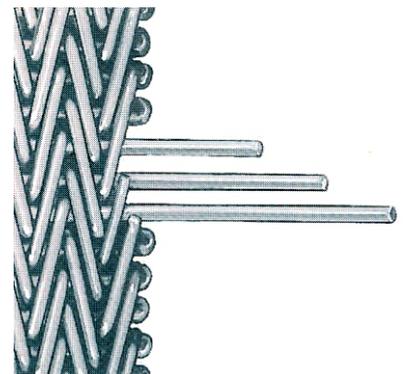
PB-300 Making Endless



PB-400 Making Endless



PB-500 Making Endless



PB-700 Making Endless



## PACE ENGINEERING INDUSTRIES PVT. LTD.

MANUFACTURERS OF ENTRAINMENT SEPARATORS, STRUCTURED COLUMN PACKINGS, METAL CONVEYOR BELTS AND WIRE SCREENS

Regd. Office : 318, Mahavir Industrial Estate, Off. Mahakali Caves Road, Andheri East, Mumbai-400 093.INDIA

Tel : (+91-22) 2687 5421 Fax: 2687 5423

Email : paceengg@vsnl.com Website: www.paceengg.com