

Static Conductive Belts

Under certain conditions of temperature and humidity, a belt drive may generate static electricity. Belts intended for operation in a potentially dangerous atmosphere should be constructed with a relatively low electrical resistance characteristic. It has become common practice to specify and refer to such belts as “static conductive,” “static dissipating,” or “anti-static.”

The accumulation of electro-static charges can be dangerous for different reasons:

- Generation of radio interference that can cause disturbance to electrical apparatus
- Risk of ignition and explosion in an atmosphere with high levels of combustible materials
- Risk of injury to workers in contact with the components

V-Belt Drives

Carlisle belts identified with a check mark on the chart to the right are static conductive based on testing developed by the Association for Rubber Products Manufacturers (ARPM) Bulletin IP3-3. These belts are clearly branded as “static dissipating.”

Synchronous Belt Drives

Carlisle synchronous belts are not static dissipating.

Carlisle® Belts by Timken	Cross Section	Static Dissipating
Panther®XT Synchronous Belt	8M, 14M	No
Panther® Synchronous Belt	8M, 14M, 20M	No
Synchro-Cog® HT Belt	3M, 5M, 8M, 14M	No
Dual Synchronous Belt	D8M, D14M	No
Synchro-Cog® Timing Belt	XL, L, H, XH, XXH	No
Air-Cooled Heat Exchanger Belt	14M	No
Cotton Drive® Timing Belt	CCB	No
Gold-Ribbon® Cog-Belt®	AX, BX, CX, DX	✓
Super II® V-Belt	A, B, C	✓
Super Blue Ribbon® V-Belt	AP, BP, CP, DP, EP	✓
Aramax® Xtra Duty V-Belt	3L, AK, BK	No
Power-Wedge® Cog-Belt®	3VX, 5VX, 8VX	✓
Metric Power-Wedge® Cog-Belt®	SPZX, SPAX, SPBX, SPCX	✓
Super Power-Wedge® V-Belt	5V, 8V	✓
Double Angle V-Belt	AA, BB, CC	Special Order Only
Vee-Rib™ Belt	J	No
Variable Speed Cog-Belt®	Various	✓
Gold-Ribbon® Cog-Band®	RBX, RCX, RDX, RBL, RCL, RDL	✓
Power-Wedge® Cog-Band®	R3VX, R5VX	✓
Wedge-Band®	R3V, R5V, R8V	✓
Aramax® Wedge-Band®	R8VK	✓
Wedge-Band® Chipper Drive	R5VL	Special Order Only
Super Vee-Band®	RBP, RCP, RDP	✓
Durapower®II FHP V-Belt	2L, 3L, 4L, 5L	✓
Dry Can Belt	CC	Special Order Only
Thoro-Twist™ V-Belting	3L, A, B, C	No
Round Belt	7/16, 9/16	Special Order Only

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, belts, gears, chain, couplings and related mechanical power transmission products and services.

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