



Date: April 19, 2023
Subject: Machine Matched V-Belts

All Timken® belts that are built to Chek Mate® tolerances will meet or exceed the specifications required by ARPM (Association for Rubber Products Manufacturers) for a matched set. For applications that demand even tighter tolerances, machine-matched belts are available.

Machine-matched belts can be ordered on PTplace.com. The part number for a matched set contains an **MS** suffix and can be selected from the drop-down list provided.

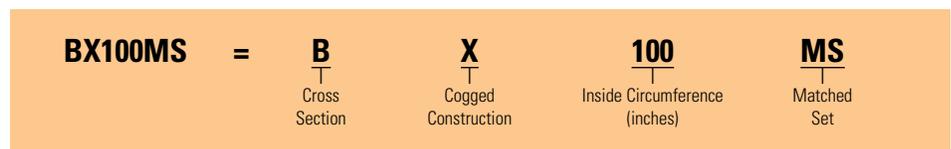
For example, if a machine-matched set of 3 BX100 belts is required, a quantity of (3) **BX100MS** should be ordered. See example at right.

A premium of 10% for part numbers containing the MS suffix is included in the price shown on PTplace.

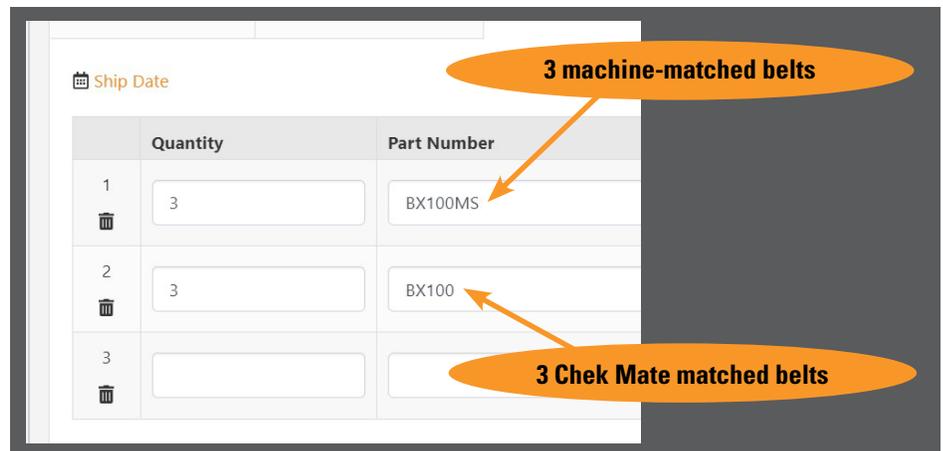
Some Chek Mate and machine matched belt tolerances are the same. The length varies depending on the product line. Timken classical and wedge v-belts approximately 63 inches and shorter that carry the Chek Mate logo or icon are already matched to the same tolerances. Therefore, no MS suffix part number is required when ordering these shorter lengths.

See reverse for additional information on belt matching.

Part Number Example for Machine Matched Set:

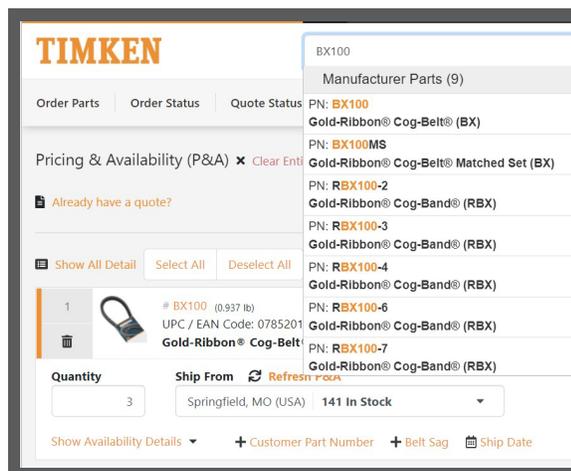


PT Place Ordering Example:



NOTE: A premium of 10% is charged for machine matched sets and is included in the price shown on PTplace.

Drop-Down Menu Example:



Note: Ordering details shown do not apply to SAG matching of banded belts.

Note: All MX suffix orders can only be placed and shipped from our Springfield, MO distribution center.

Note: Belts are machine matched after the order is placed so inventory on parts with the MS suffix always show as zero. To confirm availability, check the part number without the MS suffix for inventory in Springfield.

Product Information Bulletin – Continued

Belt Matching

- Manufacturing processes may have variation
- One key belt variation is length
- Optimal performance on drives with multiple belts requires “matched belts”

Machine Matched Belts

- Machine-matched belts are matched to a single sag code
- For classical and wedge v-belts approximately 63 inches* and shorter, Chek Mate and machine-matched tolerances are the same
- Classical and wedge v-belts approximately 64 inches* and longer can be ordered machine-matched including Gold-Ribbon® Cog-Belt®, Power-Wedge® Cog-Belt®, Super Blue Ribbon®, Super II®, and Super Power-Wedge® v-belts
- A 10% premium is added for machine-matched belts



- Chek Mate is a Timken Belts process that manufactures v-belts to meet or exceed the Association for Rubber Products Manufacturers (ARPM) tolerances for a matched set
- Gold-Ribbon Cog-Belt, Power-Wedge Cog-Belt, Super Blue Ribbon, Super II, and Super Power-Wedge belts that carry the distinctive Chek Mate logo or icon are matched to meet or exceed industry standards

* Chek Mate and machine matched belt tolerances are the same up to a certain length. The length varies depending on the product line.

Importance of Using Matched Sets

- If belts are not matched, they cannot work together as a team to achieve the full horsepower capacity of the drive
- Unmatched belts may cause sheaves and belts to wear unevenly resulting in premature belt failure
- Unmatched belts may increase belt whip and vibration

When Replacing Sets of V-Belts

- Always replace with the right type of v-belt for the application
- When one belt on a multiple belt drive needs to be replaced, change all the belts with a matched set of new belts so the load can be properly shared between each belt
- Never mix new and used belts on a drive
- Never mix belts from different manufacturers
 - The dimensions of belts from different manufacturers may vary
 - Construction differences may cause belts to ride differently in the sheaves
 - Belts will not be matched and will not deliver the service life they should
- Problems that appear to be caused by belts that are not matched may be due to other causes such as misalignment and sheave wear



Timken Belts is part of The Timken Company's growing portfolio of engineered bearings and industrial motion products. A manufacturer of premium performance power transmission belts, Timken Belts' associates and products help keep industry in motion and the world more productive.

www.timkenbelts.com