

Chek Mate® Belt Matching



When multiple belts with variations in length are used on a single drive, some belts may appear to hang unevenly or “sag.” If belts are not matched, the shortest belt carries the load. This prevents the belts from working together as a team to achieve the full horsepower capacity of the drive. “Matched belts” are required to obtain optimal performance and belt life on a multiple-belt drive. In the past, a “sag number” or “match number” was needed to identify variation from the target specification. Chek Mate replaces the need to find belts with a match number. All Timken® belts of the same part number and branded with the Chek Mate symbol will match.

Belt Matching

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

Chek Mate®

- 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
 - ARPM IP-20: Specifications for Drives Using Classical V-Belts
 - ARPM IP-22: Specifications for Drives Using Narrow V-Belts
- Matching numbers are not required on these Timken belts which carry the distinctive Chek Mate logo or symbol: Super Blue Ribbon®, Super II®, Super Power-Wedge®, Power-Wedge® Cog-Belt® and Gold-Ribbon® Cog-Belt®
- Maximizes belt life and performance by eliminating mismatching

Importance of Using Matched Sets

- When it’s time to change one belt on a multiple-belt drive, replace *all* belts with a matched set of new belts
 - This allows the load to be properly shared between each belt
- 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
- Never mix new and used belts on a drive
- Never mix belts from different manufacturers
 - Belts cannot be matched and will not deliver the service life they should
 - The dimensions of belts from different manufacturers may vary
 - Construction differences may cause belts to ride differently in the sheaves
- Problems that appear to be caused by belts that are not matched may be due to other causes such as misalignment and sheave wear

Chek Mate icon ensures matched belts



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.

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