Predator™ Powerband® Belts
PA NOTE

Gates new Predator™ PowerBand® belts require different static-tensioning values and matching procedures than equivalent size and cross-section standard belts.

Since there are no current horsepower ratings associated with this problem-solver belt, static tensioning data cannot be obtained from the available Gates Computer Design programs. Calculations need to be done using the standard formulas from Gates Heavy Duty Belt Drive Design Manual #14995-A (dated 1993), Page 91. In Formula No. 6, **the M Value for a 5V PowerBand is 1.2,** while the **Y Factor for the 5V Predator PowerBand belt is 39** for use with Formulas No. 7 through No. 10. For 8V Predator the M Value is 3.0 and the Y Factor is 105.

Matching of the Predator PowerBand belts requires special attention. Due to the special high modulus tensile cord used in these belts, we recommend all Predator PowerBand belts be matched in sets to one single match number only. Single match numbers involve precision measuring and grouping of belts in specific length ranges. Matched sets should be specified when ordering Predator PowerBand belts to assure they are matched correctly.

Moreover, it is imperative that the sheave grooves be routinely inspected for groove wear and replaced regularly. This is due to the demanding nature of the applications and the harsh environments where these belts will be used. Groove wear can be easily identified using a set of Gates Sheave Groove Gauges.