

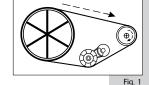
Rotary Tensioner Installation Instructions

RT1000 and RT1600 Series

For V-belt, V-ribbed, Synchronous Belt Drives and Roller Chain Drives

Mounting Requirements

Before beginning the installation, review the following:



- Mounting bracket and supporting framework must be sturdy to prevent twisting under load.
- Mounting bracket and rotary tensioner must be located to allow for correct alignment of the idler with the driveR and driveN pulleys or sprockets.
- Rotary tensioner should always be mounted on the slack side of the belt or chain drive. See Figure 1.
- The preferred location of a rotary tensioner/idler is on the inside of the belt drive. Optimum location would be where the idler provides nearly equal arcs of contact on both the driveR and driveN pulleys.
- As a rule of thumb, the inside idler pulley should be the same diameter as the driveR pulley.
- An outside spring-loaded rotary tensioner may be used, but the idler pulley imposes a back bend on the belt. Follow the belt manufacturer's recommendations for diameter and location. Typically, this diameter should be ¹/₃ larger than the driveR pulley.
- Rotary tensioner and idler sprocket should always be positioned on the outside of the chain.

Note: At least three idler sprocket teeth must engage the chain.

- If possible, position the rotary tensioner with idler approximately ¹/₂, but no less than ¹/₃, of the center distance from the driveR sprocket.
- Never use a spring-loaded rotary tensioner/idler on a reversing drive.

(OVER)

Assembly Instructions

- 1. Mount idler pulley/sprocket to rotary tensioner arm.
- 2. Drill a 0.40 clearance hole or tap for a $\frac{3}{8}$ " 16 thread in the mounting bracket.
- 3. Insert mounting bolt in rotary tensioner body and into the mounting hole. Hand tighten only! Check the alignment with the driveR and driveN pulleys/sprockets. Any misalignment must be corrected!
- 4. Place belt/chain over all the pulleys/sprockets.
- 5. Place a 15/16" wrench on the hex nut in the tensioner body and a wrench on the mounting fastener.
- 6. Using the wrench on the tensioner body, apply pressure in the appropriate direction until the belt/chain is properly tensioned. Figure 2: The tensioner body has equally spaced marks every

15° representing the force and

degrees per Table 1.

Table 1

Fig. 2

- 7. With the tensioner securely held in position, tighten the mounting fastener.
- 8. Before starting the drive, recheck drive alignment and check all mounting fasteners for tightness.

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Patent	Pending

		Table 1.
Model Series	Arm Rotation Degrees	Force ⁽¹⁾ (lbs.)
RT1000	15 30 45	16 23 30
RT1600-L	15 30 45	10 13 16
RT1600	15 25 35	20 23 26

(1) All forces (lbs.) are nominal.

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