SB12040007 Installation Tools

Installation Tools

Belt drives can be optimized when operating according to accurately set design parameters. Often times, these parameters can be achieved through a thorough installation tuning.

Pulley alignment and belt tension are operating parameters that are directly linked to drive stability, noise and component life, which help increase the assembly reliability.

Oliva Torras adds into its portfolio a set of tools to ease and help setting these operating parameters to range:

- 1149000001 Pulley Alignment Tool
- 1149000002 Belt Tension Meter

Oliva Torras strongly recommend their use on each Drive Kit installation or service.

Please, contact our Customer Service for availability and sales conditions.

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- 1149000001 Pulley Alignment Tool

  – Description

    This is a tool for an accurate pulley alignment check.

    It is suitable for Poly-V type belts.

  – Contents

    • Hard case
    • Laser pointer
    • Securing band
    • Safety glasses
    • Lithium Battery
    • User's Manual

  – Precautions

    The laser beam is a classified Class IIIA device with less than 5 mW. Exposition of a bear eye for elapsed times above 0.25s can cause permanent eye damage. Always wear protection glasses for reflected light exposition.

  – Alignment procedure

    • Place and secure the alignment tool on the pulley which is to be checked using the securing band. Position the tool aligned against the pulley grooves

    • Rotate the pulley and observe the laser beam projection on the reference pulley

  – Criteria of acceptance

Pulley center line distance	Deviation
150 mm	0.25 grooves
300 mm	0. 50 grooves
450 mm	0.75 grooves
600 mm	1.00 grooves

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- 1149000002 Belt Tension Meter
  - Description

    This is an instrument that easily, quickly and accurately provides an indication of the belt tension. The measurement is the belt vibration frequency. Belt tension is directly linked to its resonance frequency.

    Belt vibration frequency is unique for each application and strand. The Ass'y Drawing and the Installation Instructions for each Drive Kit indicate the strand where to measure and the nominal resonance frequency.

    It can be used on any belt type application.

  - Contents

    Hard case
    Instrument
    Local probe
    Remote probe
    User's Manual

  - Measurement procedure
    - Fit the belt into place
    - Run the belt for a few seconds
    - Start the instrument
    - Strike the belt strand highlighted in the documentation
    - Point the probe indicator beam against the belt within a range of 3 to 20 mm
    - Read the vibration frequency in the read out screen

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