ONE POINT LESSON

Registration No.		DIP/MEC/11-03-21
Theme	**Drive Belt Tension Measurement (PAGE:1)**	Posting expires: Basic knowledge Problem case examples Improvement case examples

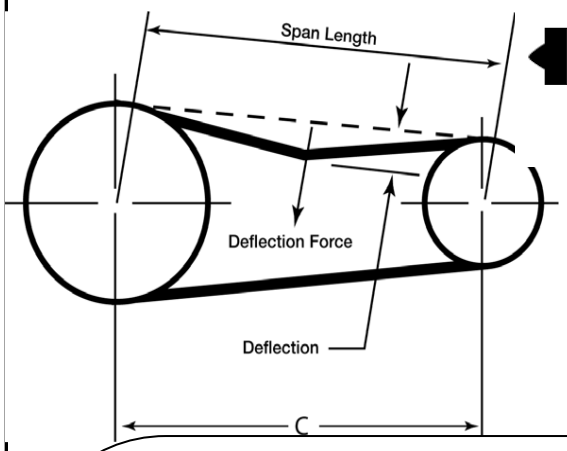

Figure:1

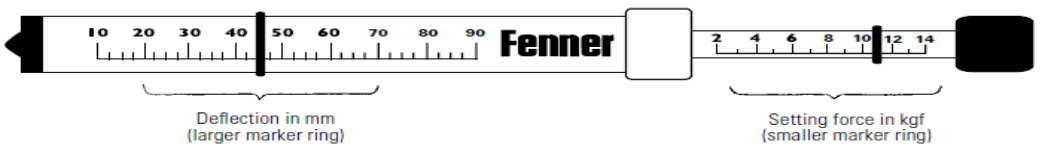

Figure:2

Figure:3

1:Turn off power to the motor and follow lock out, tag out procedures
2:Measure the span length of the belt. *See Figure 1.*
3: Span length sets the belt deflection. 16mm /metre of span length.
4:Set large'O'ring on tension meter to desired deflection found in Step3 . Figure 2.
5:Set the small "O" ring on the tension meter to the zero mark. *See Figure 2.*
6. Holding the tension meter as indicated in *Figure 3*, press the opposing end of the tension meter to the midpoint of the belt span as indicated in *Figure 1*.
7:Press down on the tension meter (deflecting the belt) until the large "O" ring is even with the original location of the belt.
8:For a multiple belt drive, depress the tension meter until the large "O" ring is even with the top of the next belt. Take a reading from each belt for an average.
9. Small "O" ring now indicates force (Nm) required to get desired belt deflection.
10:Check this reading against the recommended minimum belt deflection force in the Recommended Minimum Belt Deflection Force table .
11. Tighten or loosen the belt accordingly to achieve the recommended minimum belt deflection force. Tighten the belt will increase force; loosening belt will decrease the belt force.

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Evaluation of skill - 1. Does not understand 2. Understand intellectually 3. Can perform to some extent 4. Can perform with confidence

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