

# Belt Influence Compensation (BIC)

## BELT AVERAGE TARE (WITHOUT BIC)

Tare can be defined as weight recorded by the load cell with no material left on the belt. The method for determining the belt or tare weight uses the average weight recorded from several revolutions of the EMPTY belt. Taking the gross weight minus the tare weight provides the actual material weight.

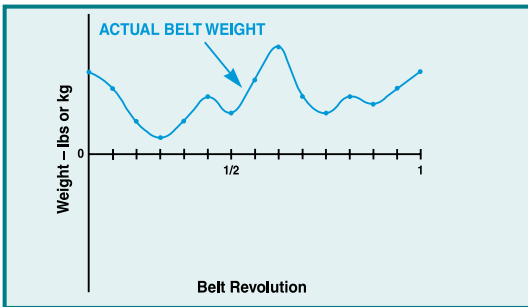


CHART 1: Shows the belt weight as recorded during one (or more) revolution(s).

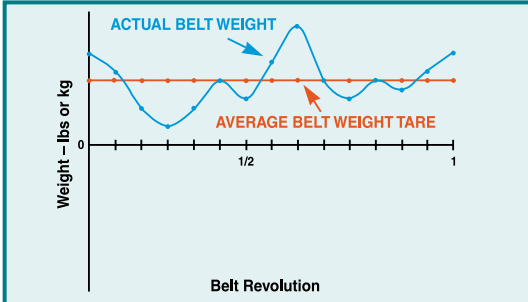


CHART 2: The added straight line depicts the average belt weight as calculated from the actual belt weight.

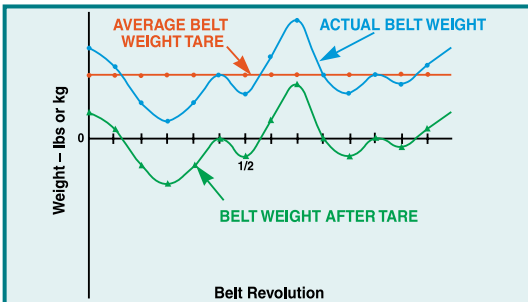


CHART 3: The third line represents the results of subtracting the average weight from the actual weight. Any variation from zero is an error affecting accuracy.

## BELT INFLUENCE COMPENSATION TARE (BIC)

This method records the actual belt weight in small increments and subtracts it from the gross weight recorded for that section of belt. Essentially, it creates a mirror image of the belt and subtracts it from the actual belt weight, significantly reducing error due to belt variations.

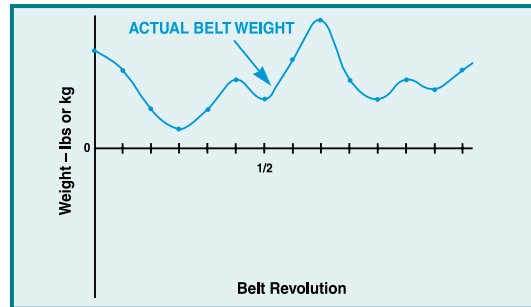


CHART 1: Shows the belt weight as recorded during one (or more) revolution(s).

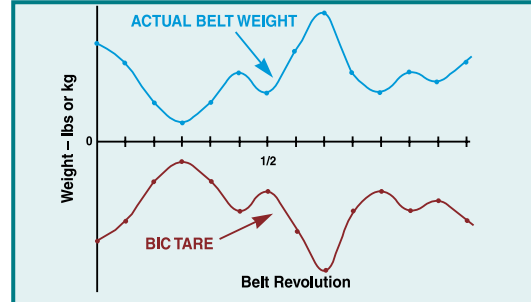


CHART 2: The added line depicts the BIC tare weight (mirror image of the actual belt weight) as calculated from the actual belt weight.

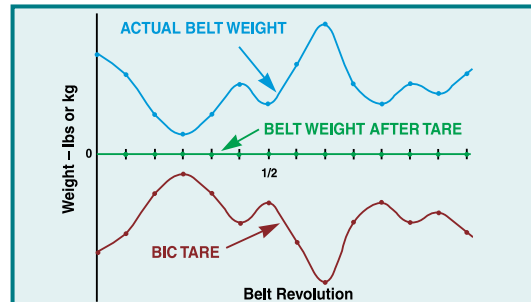


CHART 3: The third straight line represents the results of subtracting the BIC tare weight from the actual weight. The result is a more accurate subtraction of the tare weight resulting in a more accurate material measurement.

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