

ULTRASONIC VERIFICATION



The only way to be absolutely sure that the specified bolt load is achieved in a bolted assembly is to measure the bolt stretch. The only practical way to do that is with Precision Bolt Load Monitoring.

Every other method is guesswork and guesswork can be dangerous, costly and could lead to unscheduled shutdowns. Ultrasonic verification instantly provides digitized read-out of the true bolt load.

One critical flanges control of the bolt preload is essential to the performance of the flange. Bolt Load that is too low will not ensure suitable gasket stress is maintained to affect a seal. The result is leakage.

A Bolt Load that is too high will result in damage to the flange, bolt or gasket, resulting in leakage.

ULTRASONIC SPECIFICATIONS

Resolution:

0.001 inch (0.002 mm)

General:

Pitch catch, pulse echo measurement modes.
Automatic peak signal and phase section.

Pulser:

160 volt push/pull tone burst – selectable burst width
Selectable frequencies – 1, 2.5, 5, 7.5, 10 MHz

Receiver:

Low noise preamplifier
Automatic wave form and signal diagnostic display.

Timing:

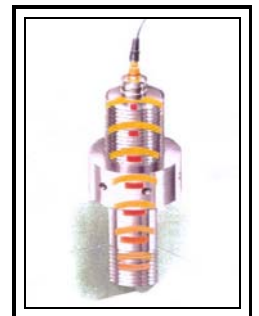
160 MHz 10 ppm TXC controlled digitizer

Memory:

2-megabit non-volatile
1000 bolts, 5000 measurements



State-Of-The-Art Digital Ultrasound
Significantly increases instrument accuracy and repeatability



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