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Stress Relief Engineering Co.

Vibratory Stress Relief commonly called VSR or vibrational conditioning in its more generic form is typically used during and after welding to reduce distortion and enhance dimensional stability for machining purposes. It is now common practice to employ vibration during fabrication and machining throughout the metal working industry.

Is Vibratory Conditioning approved by code?

AWS does approve of the use of vibratory weld conditioning for welded joints machinery, equipment, industrial cranes, and other material handling equipment.

For example:

AWS D14.1 Sec. 7.7 and AWS D14.4 Sec. 10.4 both specify vibratory conditioning to promote dimensional stability.

Vibratory Conditioning Sec. 7.7 and 10.4 state:

Vibrational conditioning of weldments to obtain dimensional stability for machining of welded structures may be employed with the approval of the Engineer. The conditioning shall be done in accordance with the recommendations of the manufacturer of the vibratory equipment. It shall not be substituted for thermal stress relief.