

# Comparisons of Metal Stress Relief Processes

		Bonal Tech (Meta-Lax®)	Heat Treat (Thermal)	Cryogenics	Other VSR Processes	NO Stress Relief
Operating Principals		SUB-Harmonic Vibration	High Temp Heat	Deep Freeze & Low Heat	Resonant Vibration	Nothing
Benefits						
1	Effective (Compared to Thermal)					
2	Consistent (Compared to Thermal)					
3	Documentation/Certification					—
4	Can be Applied During Welding					—
5	Can be Applied to Finished, Assembled, or Hardened Parts					—
6	Can Stress Relieve Cold Worked Material					—
7	Can Soften Hardened Surfaces					—
8	No Size or Weight Limitations					—
9	No Adverse Side Effects (changing mechanical properties, soften, distortion, discoloration)					—
10	Time (Speed of Process)					—
11	No Fatiguing					—
12	Engineering & Laboratory Support					—

Key					
	Excellent	Good	Average	Poor	Avoid

*SUB-Harmonic Vibration Stress Relief is a **PATENTED** process available only from Bonal Technologies, Inc.*