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## WE INVENTED THE VSR PROCESS

### VIBRATORY STRESS RELIEF LIBRARY

The VSR Library has two "wings", a technical section that contains a collection of the best, independently researched works on vibratory stress relief, plus a collection of case studies in applying the technology. Some of the technical works are considered ground-breaking, such as Dawson & Moffat's Vibratory Stress Relief: A Fundamental Study of Its Effectiveness, in which the authors report reducing stress in twenty samples of three alloys by 90% using vibration. Most papers have been published in engineering journals or societies, but a small number of works were direct submissions to the Library.

We invite submissions to the technical library, which must meet criteria set forth in our Library Acceptance Criteria Memo. Although use of equipment commercially available can be described, the purpose of the Technical Library entries is to build upon the scientific body of knowledge of vibratory stress relief.

The VSR Report Library contains reports generated for VSR subcontract customers, with a wide range of work-piece configurations. These reports include drawings and / or photos of the work-piece(s), setups for the VSR Process, and the VSR Treatment Charts in chronological order, with discussions of the charts. Often they include machining results and / or installation or on-site commissioning details. Often these reports act as primers for new VSR Operators, functioning as a guide thru the steps and procedures of the VSR Process.

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Advanced VSR Technology has more than 30 years experience in vibratory stress relief, pioneering both in process development and equipment design. The 1982 research paper that our staff coauthored with an MIT metallurgist, that was the first to report and publish what is now known as a VSR Chart, can be seen in the VSR Technical Library.

Here are additional distinguishing features developed by us:

- Dual flanged vibrators allow the operator to select the ideal vibrator orientation, or perform two successive treatments, using different vibrator orientations. For certain components, such as **ring-shaped components** or **large press frames**, two such treatments are often necessary.
- Display not only of the workpiece acceleration, but also the **vibrator power**. This allows the operator to both **position the vibrator** properly, and **adjust the unbalance**



