Dreyfus GLOBAL TRADE, LLC.

Examples & Applications

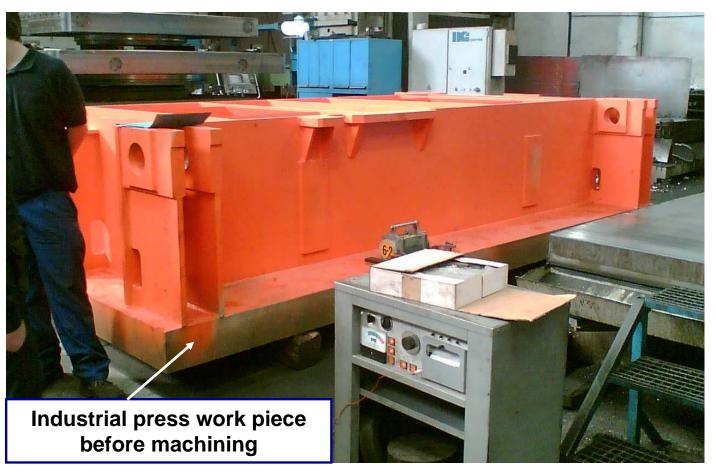
Reducing Residual Stress with Resonance Based Vibration





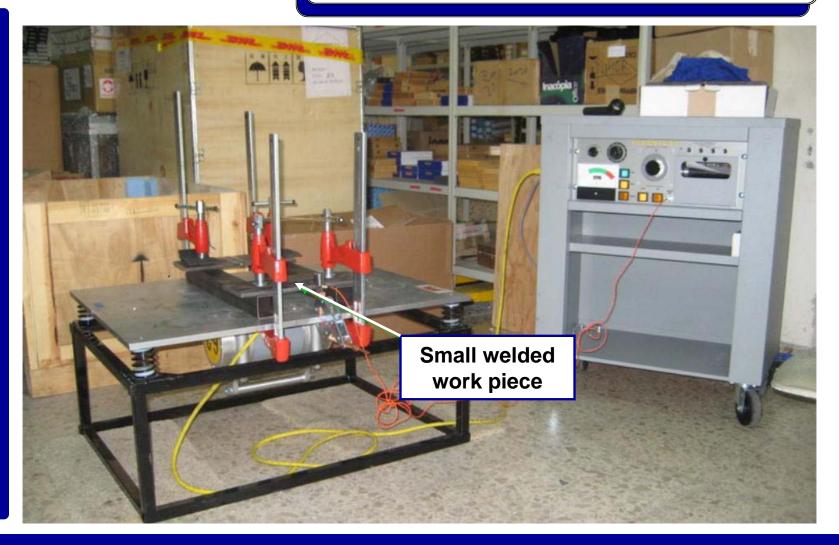
Resonance Based Vibratory Stress Relief

An alternative to furnace or thermal heat treatment.





The method can stabilize pieces that weigh a few grams...





... to pieces of 150 tons or more.





Effective on: welded pieces...



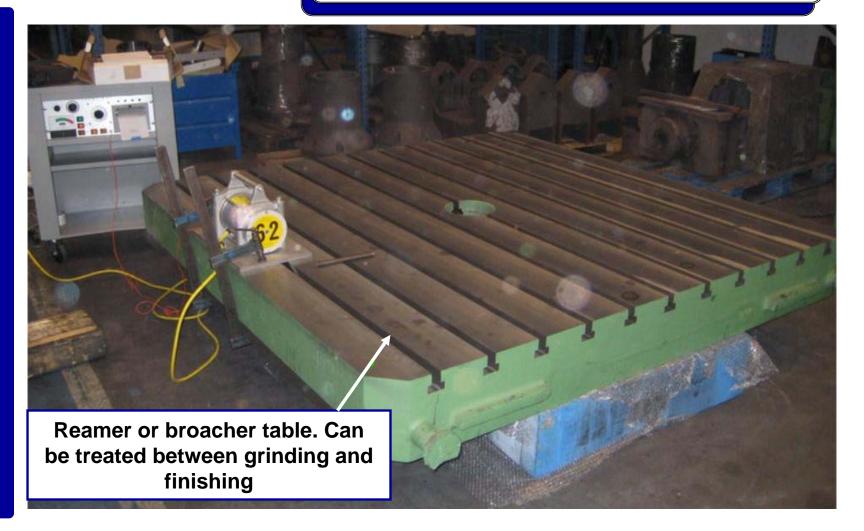


... casting...



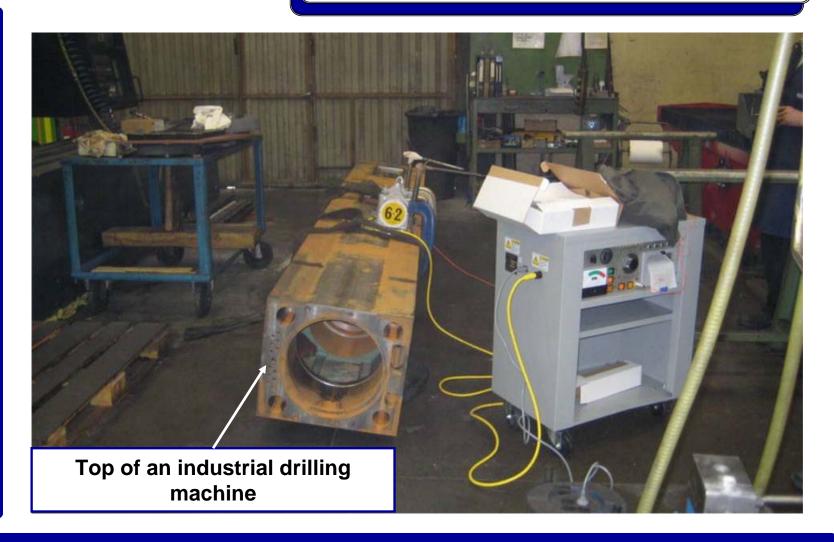


... machined pieces...





... hardened pieces...



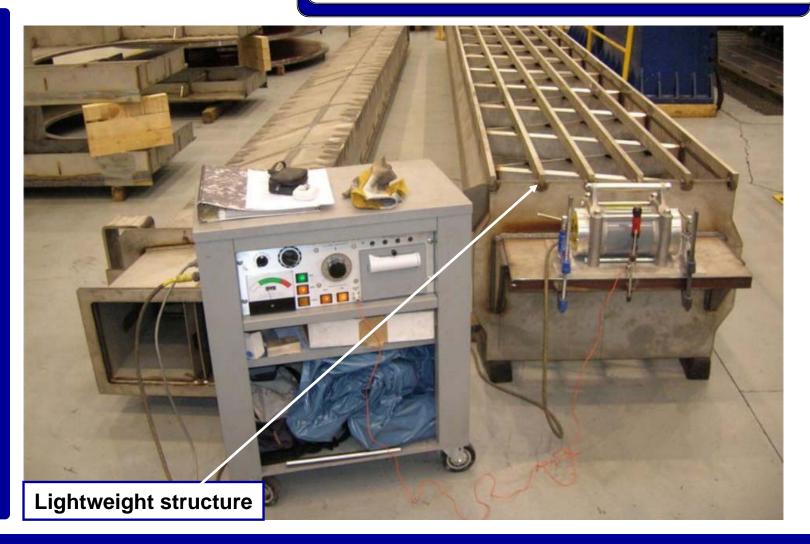


... unfinished material, for example, plates before cutting...





and many more pieces.





Effective on a great variety of materials: carbon steel...





... ferrous metals...





... stainless steel...





...aluminium.





Vibratory Stress Relief Examples





Vibratory Stress Relief Examples





Vibratory Stress Relief Examples





Important: isolate the piece off the ground with rubber...





...blocks of plastic or polyurethane...





...devices with silent-blocks...



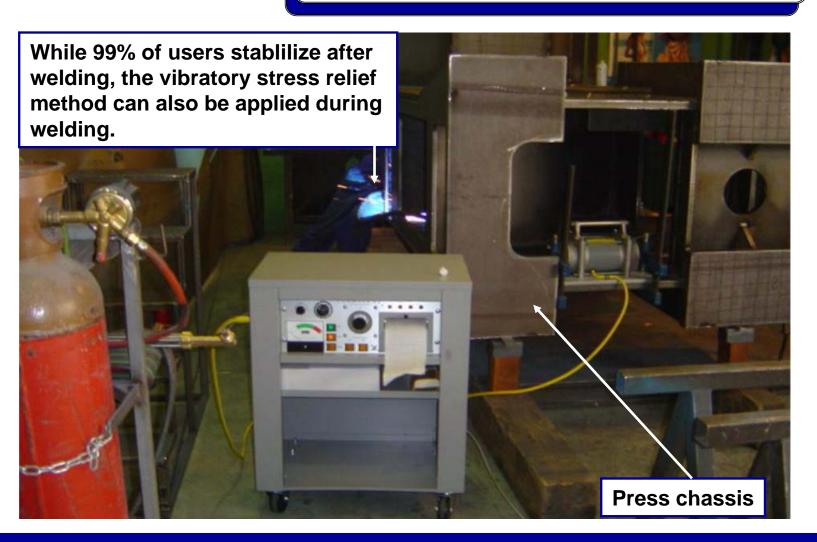


... or, as a last resort, wood...





... or combinations of all of these.





Secure the motor to the piece which is to be stablized...





...and the accelerometer recognizes the correct vibration signal.





Sometimes the shape of the piece influences the work method





Smaller piece is attached to a larger piece. Isolate and treat them together...



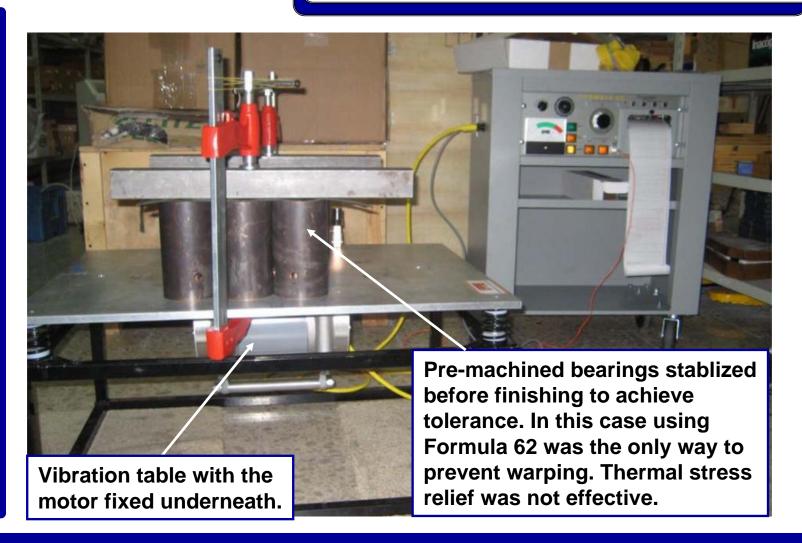


Several pieces are treated together by placing them on an isolated pallet...



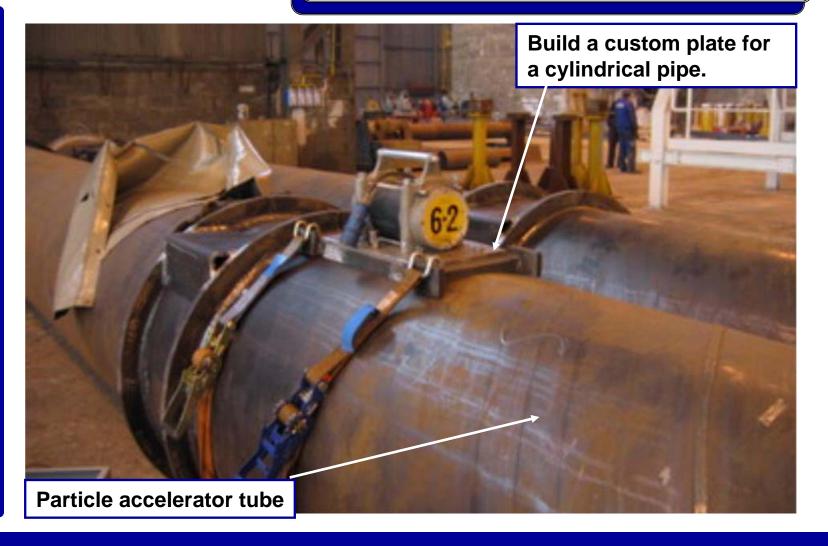


Another option is to create a vibration table with springs.





Create adapter plates for cylindrical shapes.





For large pieces, apply Formula 62 in several places

